

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: P489480

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-27-120-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: P489480  
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-24-4-INS-A12125-LD4-3LO-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

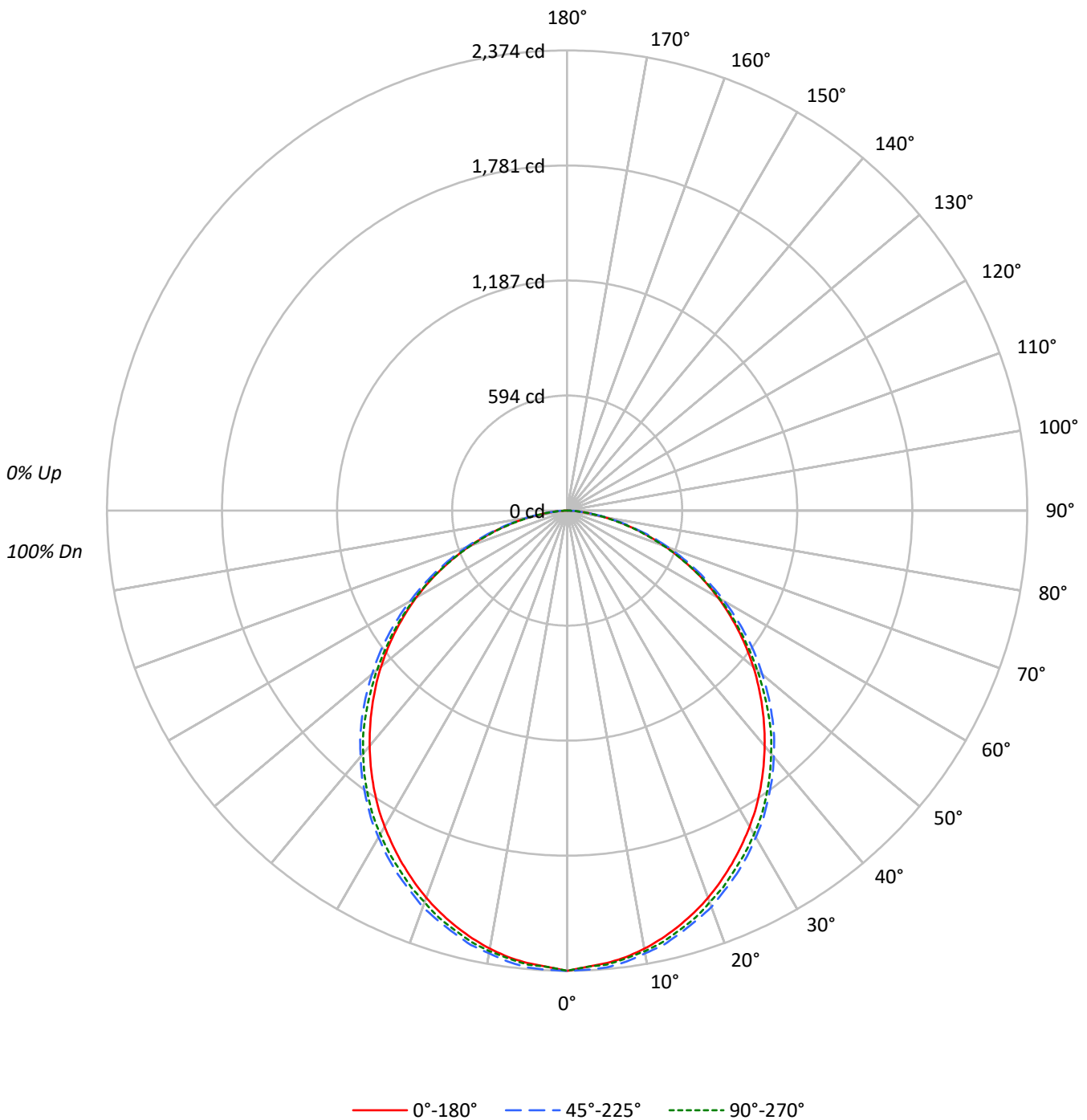
Lumens per Lamp: N/A  
Luminaire Lumens: 6242.6 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	3195	3195	3195
5°	3165	3195	3175
10°	3136	3168	3153
15°	3093	3143	3121
20°	3044	3116	3079
25°	2985	3071	3036
30°	2925	3024	2996
35°	2859	2972	2944
40°	2784	2913	2876
45°	2706	2843	2789
50°	2625	2752	2680
55°	2530	2648	2567
60°	2422	2523	2444
65°	2282	2370	2284
70°	2100	2185	2077
75°	1849	1933	1821
80°	1503	1568	1485
85°	1047	1115	1088



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.6	3.6
10°-20°	633.7	10.2
20°-30°	945.2	15.1
30°-40°	1120.0	17.9
40°-50°	1133.3	18.2
50°-60°	989.8	15.9
60°-70°	723.3	11.6
70°-80°	384.8	6.2
80°-90°	89.0	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°	1802.5	28.9
0°-40°	2922.5	46.8
0°-60°	5045.5	80.8
0°-90°	6242.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6242.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2344	2348	2366	2371	2351	222
15°	2220	2235	2256	2270	2240	626
25°	2011	2035	2069	2077	2045	926
35°	1740	1768	1809	1822	1793	1088
45°	1422	1448	1494	1495	1466	1097
55°	1078	1100	1129	1112	1094	964
65°	717	732	744	730	717	709
75°	356	364	372	358	350	378
85°	68	69	72	73	70	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2374.5	2374.5	2374.5	2374.5	2374.5
2.5°	2355.9	2363.6	2371.5	2375.0	2355.7
5°	2343.5	2348.0	2365.6	2371.0	2351.0
7.5°	2323.3	2329.9	2347.0	2349.5	2330.2
10°	2295.5	2307.4	2318.8	2331.2	2307.7
12.5°	2260.2	2276.2	2295.5	2297.8	2280.0
15°	2220.3	2235.2	2256.2	2269.8	2240.4
17.5°	2175.8	2190.2	2217.4	2219.8	2202.0
20°	2126.1	2143.9	2176.5	2182.2	2150.3
22.5°	2069.7	2093.7	2120.9	2126.3	2102.8
25°	2010.6	2035.3	2068.9	2076.6	2045.2
27.5°	1948.7	1972.5	2010.3	2015.7	1989.3
30°	1882.4	1904.7	1946.2	1955.4	1928.4
32.5°	1815.1	1837.4	1883.4	1891.1	1864.8
35°	1740.4	1767.6	1809.4	1822.0	1792.6
37.5°	1664.2	1690.7	1738.2	1749.6	1717.9
40°	1585.3	1611.5	1658.3	1667.7	1637.2
42.5°	1504.6	1530.9	1580.8	1582.3	1557.1
45°	1422.3	1447.5	1494.0	1495.2	1465.8
47.5°	1338.6	1364.1	1405.7	1401.0	1373.3
50°	1254.0	1278.3	1314.6	1305.2	1280.3
52.5°	1166.5	1190.0	1224.3	1209.0	1185.5
55°	1078.4	1100.1	1128.8	1112.5	1094.2
57.5°	989.6	1011.6	1033.6	1017.0	1001.2
60°	900.0	919.3	937.4	920.5	908.4
62.5°	809.0	825.5	841.1	825.1	813.7
65°	716.9	731.5	744.4	729.6	717.4
67.5°	625.4	637.8	649.6	634.3	621.7
70°	533.9	544.5	555.4	539.6	527.9
72.5°	443.6	453.0	462.6	447.3	437.1
75°	355.7	363.9	371.8	358.2	350.3
77.5°	271.9	278.8	284.3	275.6	267.9
80°	194.0	199.2	202.4	198.9	191.7
82.5°	124.7	128.4	130.1	129.9	125.2
85°	67.8	69.0	72.2	73.0	70.5
87.5°	26.2	28.0	28.7	30.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)