



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: P489486

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-40-120-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: P489486
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-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

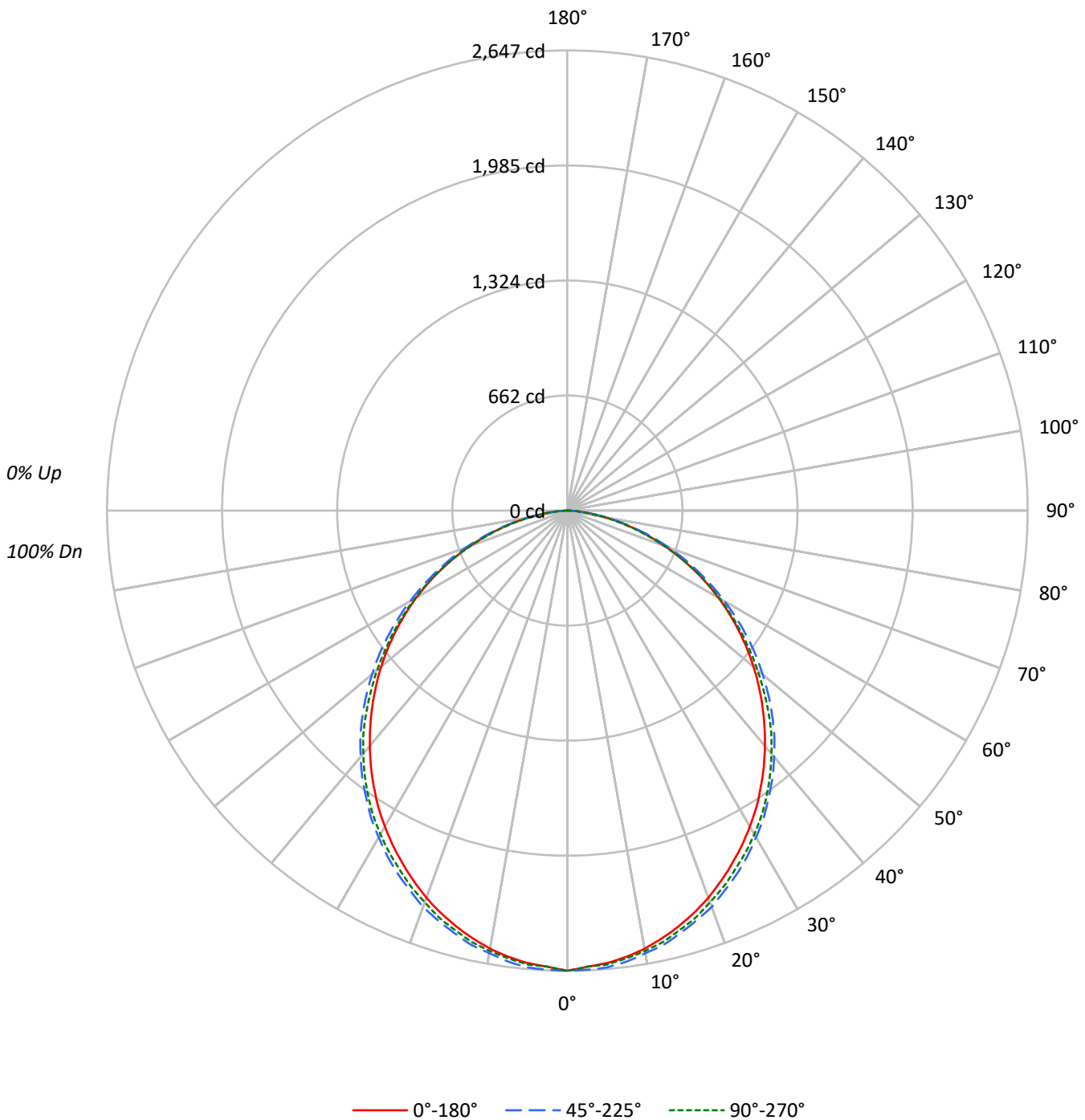
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6959.4 lumens
Efficiency: N/A
Efficacy: 99.1 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
RC	80								50									0
RW	70	50	30	10					70	50	30	10						0
RCR																		
0	119	119	119	119					116	116	116	116						100
1	109	105	100	97					106	102	98	95						85
2	99	91	85	79					97	90	83	78						71
3	91	80	72	66					88	79	71	65						60
4	83	71	63	56					81	70	62	56						51
5	77	64	55	48					75	63	54	48						45
6	71	58	49	42					69	57	48	42						39
7	66	52	44	38					64	51	43	37						35
8	61	48	39	34					60	47	39	33						31
9	57	44	36	30					56	43	35	30						28
10	54	41	33	27					52	40	32	27						25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3562	3562	3562
5°	3529	3562	3540
10°	3496	3532	3515
15°	3448	3504	3479
20°	3394	3474	3432
25°	3328	3424	3385
30°	3260	3371	3340
35°	3187	3313	3282
40°	3104	3247	3206
45°	3017	3169	3109
50°	2926	3068	2988
55°	2820	2952	2862
60°	2700	2812	2725
65°	2545	2642	2546
70°	2341	2436	2316
75°	2062	2155	2030
80°	1675	1748	1656
85°	1167	1243	1213



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture
0°-10°	249.3	3.6
10°-20°	706.5	10.2
20°-30°	1053.7	15.1
30°-40°	1248.6	17.9
40°-50°	1263.4	18.2
50°-60°	1103.4	15.9
60°-70°	806.3	11.6
70°-80°	429.0	6.2
80°-90°	99.2	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°	2009.5	28.9
0°-40°	3258.1	46.8
0°-60°	5624.9	80.8
0°-90°	6959.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6959.4	100.0

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2613	2618	2637	2643	2621	248
15°	2475	2492	2515	2530	2498	698
25°	2241	2269	2306	2315	2280	1033
35°	1940	1971	2017	2031	1998	1213
45°	1586	1614	1666	1667	1634	1223
55°	1202	1226	1258	1240	1220	1075
65°	799	816	830	813	800	791
75°	397	406	414	399	390	422
85°	76	77	80	81	79	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.1	2647.1	2647.1	<i>2647.1</i>	2647.1
2.5°	<i>2626.4</i>	<i>2635.0</i>	<i>2643.8</i>	<i>2647.7</i>	<i>2626.1</i>
5°	2612.6	2617.6	2637.2	<i>2643.2</i>	2620.9
7.5°	2590.0	2597.5	2616.5	<i>2619.3</i>	2597.7
10°	2559.1	2572.4	2585.1	<i>2598.8</i>	2572.6
12.5°	2519.7	2537.6	2559.1	<i>2561.6</i>	2541.8
15°	2475.3	2491.8	2515.3	<i>2530.4</i>	2497.6
17.5°	2425.6	2441.6	2472.0	<i>2474.7</i>	2454.9
20°	2370.2	2390.1	2426.5	<i>2432.8</i>	2397.2
22.5°	2307.3	2334.1	2364.4	<i>2370.5</i>	2344.3
25°	2241.4	2269.0	2306.5	<i>2315.0</i>	2280.0
27.5°	2172.5	2198.9	2241.1	<i>2247.2</i>	2217.7
30°	2098.5	2123.4	2169.7	<i>2179.9</i>	2149.8
32.5°	2023.5	2048.4	2099.6	<i>2108.2</i>	2079.0
35°	1940.2	1970.6	2017.2	<i>2031.3</i>	1998.4
37.5°	1855.3	1884.8	1937.8	<i>1950.4</i>	1915.1
40°	1767.3	1796.5	1848.7	<i>1859.2</i>	1825.2
42.5°	1677.4	1706.6	1762.3	<i>1764.0</i>	1735.9
45°	1585.6	1613.7	1665.5	<i>1666.9</i>	1634.1
47.5°	1492.3	1520.7	1567.1	<i>1561.8</i>	1531.0
50°	1398.0	1425.0	1465.6	<i>1455.1</i>	1427.3
52.5°	1300.4	1326.6	1364.9	<i>1347.8</i>	1321.6
55°	1202.2	1226.5	1258.5	<i>1240.3</i>	1219.9
57.5°	1103.2	1127.7	1152.3	<i>1133.8</i>	1116.2
60°	1003.4	1024.9	1045.0	<i>1026.2</i>	1012.7
62.5°	901.9	920.3	937.7	<i>919.8</i>	907.1
65°	799.3	815.5	829.9	<i>813.3</i>	799.8
67.5°	697.2	711.0	724.2	<i>707.1</i>	693.1
70°	595.2	607.0	619.2	<i>601.5</i>	588.6
72.5°	494.5	505.0	515.7	<i>498.6</i>	487.3
75°	396.6	405.7	414.5	<i>399.4</i>	390.5
77.5°	303.1	310.8	316.9	<i>307.2</i>	298.7
80°	216.2	222.0	225.6	<i>221.7</i>	213.7
82.5°	139.0	143.1	145.1	<i>144.8</i>	139.6
85°	75.6	76.9	80.5	<i>81.4</i>	78.6
87.5°	29.2	31.2	32.0	<i>34.5</i>	31.7
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)