

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: P488929

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-27-120-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: P488929  
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-LD4-3HI-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

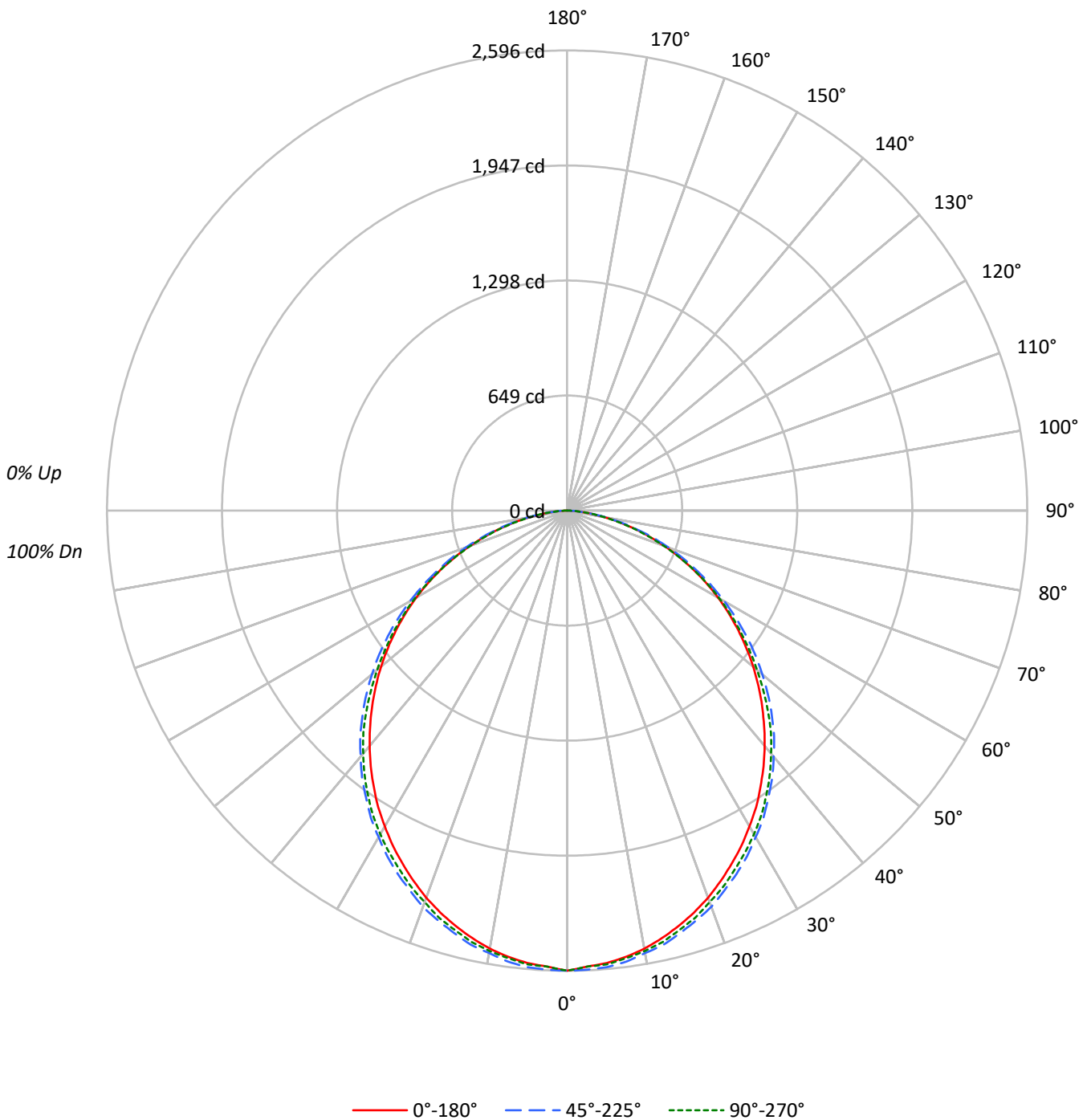
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6824.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 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): 64.8  
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°	6985	6985	6985
5°	6920	6985	6942
10°	6857	6926	6893
15°	6762	6871	6823
20°	6655	6814	6731
25°	6526	6715	6638
30°	6394	6611	6550
35°	6250	6498	6437
40°	6088	6368	6287
45°	5917	6215	6098
50°	5739	6016	5859
55°	5530	5789	5612
60°	5295	5515	5344
65°	4990	5181	4994
70°	4592	4777	4541
75°	4043	4226	3981
80°	3285	3428	3248
85°	2288	2439	2381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.5	3.6
10°-20°	692.7	10.2
20°-30°	1033.2	15.1
30°-40°	1224.3	17.9
40°-50°	1238.8	18.2
50°-60°	1081.9	15.9
60°-70°	790.6	11.6
70°-80°	420.7	6.2
80°-90°	97.2	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°	1970.4	28.9
0°-40°	3194.7	46.8
0°-60°	5515.5	80.8
0°-90°	6824.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6824.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2596	2596	2596	2596	2596	
5°	2562	2567	2586	2592	2570	243
15°	2427	2443	2466	2481	2449	684
25°	2198	2225	2262	2270	2236	1013
35°	1902	1932	1978	1992	1960	1190
45°	1555	1582	1633	1634	1602	1199
55°	1179	1203	1234	1216	1196	1054
65°	784	800	814	798	784	776
75°	389	398	406	392	383	413
85°	74	76	79	80	77	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2595.6	2595.6	2595.6	2595.6	2595.6
2.5°	2575.4	2583.7	2592.4	2596.2	2575.1
5°	2561.8	2566.7	2585.9	2591.9	2570.0
7.5°	2539.7	2547.0	2565.6	2568.3	2547.2
10°	2509.4	2522.4	2534.8	2548.3	2522.6
12.5°	2470.7	2488.3	2509.4	2511.8	2492.3
15°	2427.2	2443.4	2466.4	2481.3	2449.1
17.5°	2378.5	2394.2	2423.9	2426.6	2407.2
20°	2324.1	2343.6	2379.3	2385.5	2350.6
22.5°	2262.5	2288.7	2318.4	2324.4	2298.7
25°	2197.8	2224.9	2261.7	2270.0	2235.7
27.5°	2130.2	2156.2	2197.6	2203.5	2174.6
30°	2057.7	2082.1	2127.5	2137.5	2108.0
32.5°	1984.2	2008.5	2058.8	2067.2	2038.5
35°	1902.5	1932.3	1978.0	1991.8	1959.6
37.5°	1819.2	1848.2	1900.1	1912.5	1877.9
40°	1733.0	1761.6	1812.7	1823.0	1789.7
42.5°	1644.8	1673.5	1728.1	1729.7	1702.1
45°	1554.7	1582.3	1633.2	1634.5	1602.3
47.5°	1463.3	1491.2	1536.6	1531.5	1501.2
50°	1370.8	1397.3	1437.1	1426.8	1399.5
52.5°	1275.1	1300.8	1338.4	1321.6	1295.9
55°	1178.8	1202.6	1234.0	1216.2	1196.1
57.5°	1081.7	1105.8	1129.9	1111.8	1094.5
60°	983.8	1004.9	1024.7	1006.3	993.0
62.5°	884.3	902.4	919.5	901.9	889.5
65°	783.7	799.7	813.7	797.5	784.3
67.5°	683.7	697.2	710.2	693.4	679.6
70°	583.6	595.2	607.1	589.8	577.1
72.5°	484.9	495.2	505.7	488.9	477.9
75°	388.9	397.8	406.5	391.6	382.9
77.5°	297.2	304.8	310.7	301.3	292.9
80°	212.0	217.7	221.2	217.4	209.6
82.5°	136.3	140.4	142.2	142.0	136.8
85°	74.1	75.5	79.0	79.8	77.1
87.5°	28.7	30.6	31.4	33.8	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)