

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: P488934

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3HI-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: P488934  
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-40-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

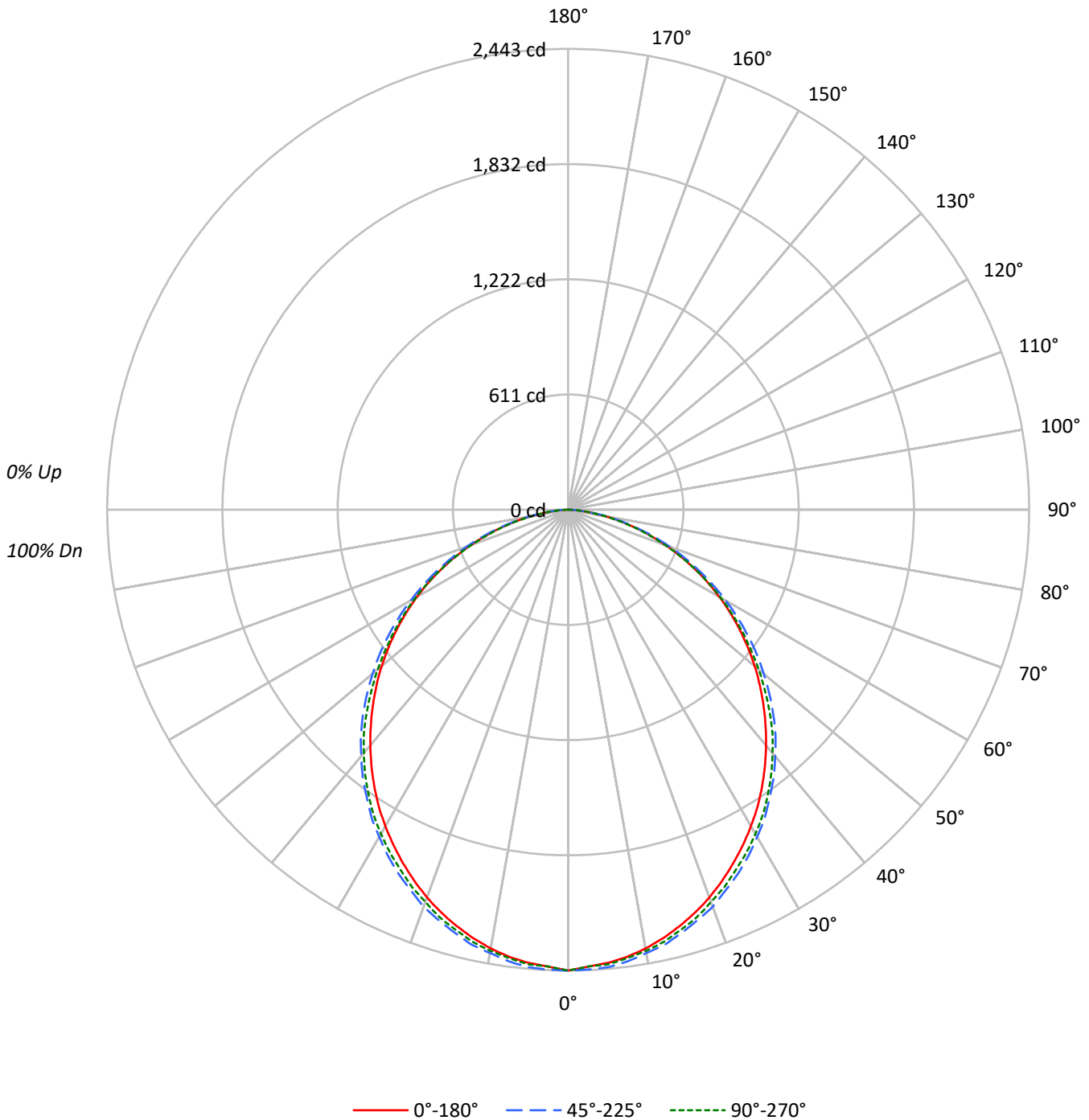
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6423.8 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: 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°	6575	6575	6575
5°	6514	6575	6535
10°	6455	6520	6489
15°	6365	6468	6423
20°	6265	6414	6336
25°	6143	6321	6249
30°	6019	6223	6166
35°	5883	6116	6060
40°	5730	5994	5918
45°	5570	5851	5740
50°	5402	5663	5515
55°	5206	5450	5283
60°	4984	5191	5031
65°	4698	4877	4701
70°	4323	4497	4275
75°	3806	3978	3748
80°	3093	3226	3058
85°	2155	2294	2242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.1	3.6
10°-20°	652.1	10.2
20°-30°	972.6	15.1
30°-40°	1152.5	17.9
40°-50°	1166.2	18.2
50°-60°	1018.5	15.9
60°-70°	744.3	11.6
70°-80°	396.0	6.2
80°-90°	91.5	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°	1854.8	28.9
0°-40°	3007.3	46.8
0°-60°	5192.0	80.8
0°-90°	6423.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6423.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2412	2416	2434	2440	2419	229
15°	2285	2300	2322	2336	2305	644
25°	2069	2094	2129	2137	2104	953
35°	1791	1819	1862	1875	1845	1120
45°	1464	1490	1537	1539	1508	1129
55°	1110	1132	1162	1145	1126	992
65°	738	753	766	751	738	730
75°	366	374	383	369	360	389
85°	70	71	74	75	73	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2443.4	2443.4	2443.4	2443.4	2443.4
2.5°	2424.3	2432.2	2440.3	2443.9	2424.0
5°	2411.6	2416.1	2434.2	2439.8	2419.2
7.5°	2390.7	2397.6	2415.1	2417.7	2397.8
10°	2362.2	2374.4	2386.1	2398.8	2374.7
12.5°	2325.8	2342.3	2362.2	2364.5	2346.1
15°	2284.8	2300.1	2321.7	2335.7	2305.4
17.5°	2239.0	2253.7	2281.7	2284.3	2265.9
20°	2187.8	2206.1	2239.7	2245.6	2212.7
22.5°	2129.8	2154.4	2182.4	2188.0	2163.9
25°	2068.9	2094.4	2129.0	2136.9	2104.5
27.5°	2005.3	2029.7	2068.7	2074.3	2047.0
30°	1937.0	1960.0	2002.7	2012.1	1984.4
32.5°	1867.8	1890.7	1938.1	1946.0	1919.0
35°	1790.9	1818.9	1861.9	1874.9	1844.6
37.5°	1712.5	1739.7	1788.6	1800.3	1767.8
40°	1631.3	1658.3	1706.4	1716.1	1684.8
42.5°	1548.3	1575.3	1626.7	1628.2	1602.3
45°	1463.5	1489.5	1537.4	1538.6	1508.3
47.5°	1377.5	1403.7	1446.5	1441.6	1413.1
50°	1290.4	1315.4	1352.8	1343.1	1317.4
52.5°	1200.3	1224.5	1259.9	1244.1	1219.9
55°	1109.7	1132.1	1161.6	1144.8	1126.0
57.5°	1018.3	1040.9	1063.6	1046.5	1030.3
60°	926.1	946.0	964.6	947.3	934.8
62.5°	832.5	849.5	865.5	849.0	837.3
65°	737.8	752.8	766.0	750.7	738.3
67.5°	643.6	656.3	668.5	652.7	639.7
70°	549.4	560.3	571.5	555.2	543.3
72.5°	456.4	466.1	476.1	460.3	449.8
75°	366.1	374.5	382.6	368.6	360.5
77.5°	279.8	286.9	292.5	283.6	275.7
80°	199.6	204.9	208.2	204.7	197.3
82.5°	128.3	132.1	133.9	133.7	128.8
85°	69.8	71.0	74.3	75.1	72.6
87.5°	27.0	28.8	29.5	31.8	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)