

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: P488968

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-35-120-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: P488968  
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-LD4-4HI-35-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

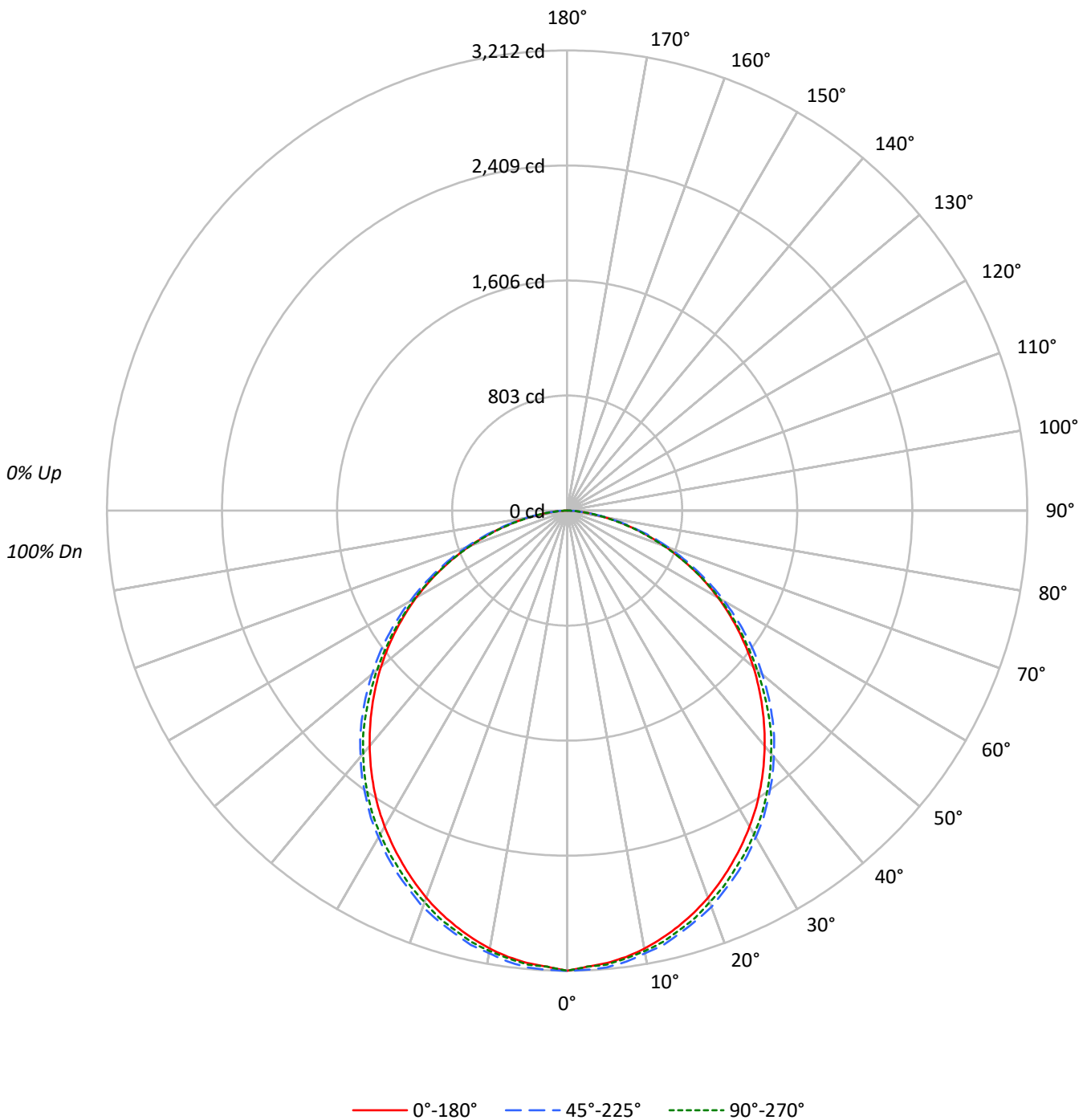
Lumens per Lamp: N/A  
Luminaire Lumens: 8445.2 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	8644	8644	8644
5°	8564	8645	8591
10°	8486	8572	8531
15°	8368	8503	8444
20°	8237	8432	8330
25°	8076	8310	8215
30°	7913	8181	8106
35°	7735	8041	7967
40°	7534	7881	7781
45°	7322	7692	7547
50°	7102	7446	7251
55°	6845	7165	6945
60°	6553	6825	6614
65°	6176	6413	6180
70°	5682	5912	5619
75°	5004	5230	4927
80°	4066	4243	4020
85°	2831	3017	2946



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.5	3.6
10°-20°	857.3	10.2
20°-30°	1278.6	15.1
30°-40°	1515.2	17.9
40°-50°	1533.1	18.2
50°-60°	1339.0	15.9
60°-70°	978.5	11.6
70°-80°	520.6	6.2
80°-90°	120.3	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°	2438.5	28.9
0°-40°	3953.7	46.8
0°-60°	6825.8	80.8
0°-90°	8445.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8445.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3212	3212	3212	3212	3212	
5°	3170	3176	3200	3208	3180	301
15°	3004	3024	3052	3071	3031	847
25°	2720	2753	2799	2809	2767	1253
35°	2354	2391	2448	2465	2425	1472
45°	1924	1958	2021	2023	1983	1484
55°	1459	1488	1527	1505	1480	1304
65°	970	990	1007	987	971	960
75°	481	492	503	485	474	512
85°	92	93	98	99	95	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3212.3	3212.3	3212.3	3212.3	3212.3
2.5°	3187.2	3197.5	3208.2	3212.9	3186.8
5°	3170.4	3176.4	3200.2	3207.6	3180.5
7.5°	3143.0	3152.0	3175.1	3178.5	3152.3
10°	3105.5	3121.6	3137.0	3153.7	3121.9
12.5°	3057.6	3079.4	3105.5	3108.5	3084.4
15°	3003.7	3023.8	3052.3	3070.7	3030.9
17.5°	2943.5	2962.9	2999.7	3003.1	2979.0
20°	2876.2	2900.3	2944.5	2952.2	2909.0
22.5°	2799.9	2832.4	2869.2	2876.6	2844.8
25°	2719.9	2753.4	2798.9	2809.3	2766.8
27.5°	2636.3	2668.4	2719.6	2727.0	2691.2
30°	2546.6	2576.7	2632.9	2645.3	2608.8
32.5°	2455.5	2485.7	2547.9	2558.3	2522.8
35°	2354.5	2391.3	2447.8	2464.9	2425.1
37.5°	2251.4	2287.2	2351.5	2366.9	2324.0
40°	2144.6	2180.1	2243.4	2256.1	2214.9
42.5°	2035.5	2071.0	2138.6	2140.6	2106.5
45°	1924.1	1958.2	2021.1	2022.8	1983.0
47.5°	1811.0	1845.4	1901.6	1895.3	1857.8
50°	1696.5	1729.3	1778.5	1765.8	1732.0
52.5°	1578.0	1609.8	1656.3	1635.6	1603.8
55°	1458.9	1488.3	1527.1	1505.1	1480.3
57.5°	1338.7	1368.5	1398.3	1375.9	1354.4
60°	1217.6	1243.7	1268.1	1245.3	1228.9
62.5°	1094.4	1116.8	1137.9	1116.2	1100.8
65°	969.9	989.6	1007.1	987.0	970.6
67.5°	846.1	862.8	878.9	858.1	841.0
70°	722.2	736.6	751.4	729.9	714.2
72.5°	600.1	612.8	625.9	605.1	591.4
75°	481.3	492.3	503.0	484.6	473.9
77.5°	367.8	377.2	384.5	372.8	362.5
80°	262.4	269.4	273.8	269.1	259.4
82.5°	168.7	173.7	176.0	175.7	169.3
85°	91.7	93.4	97.7	98.7	95.4
87.5°	35.5	37.8	38.8	41.8	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)