

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: P488995

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-40-120-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: P488995  
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-LD4-4STD-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

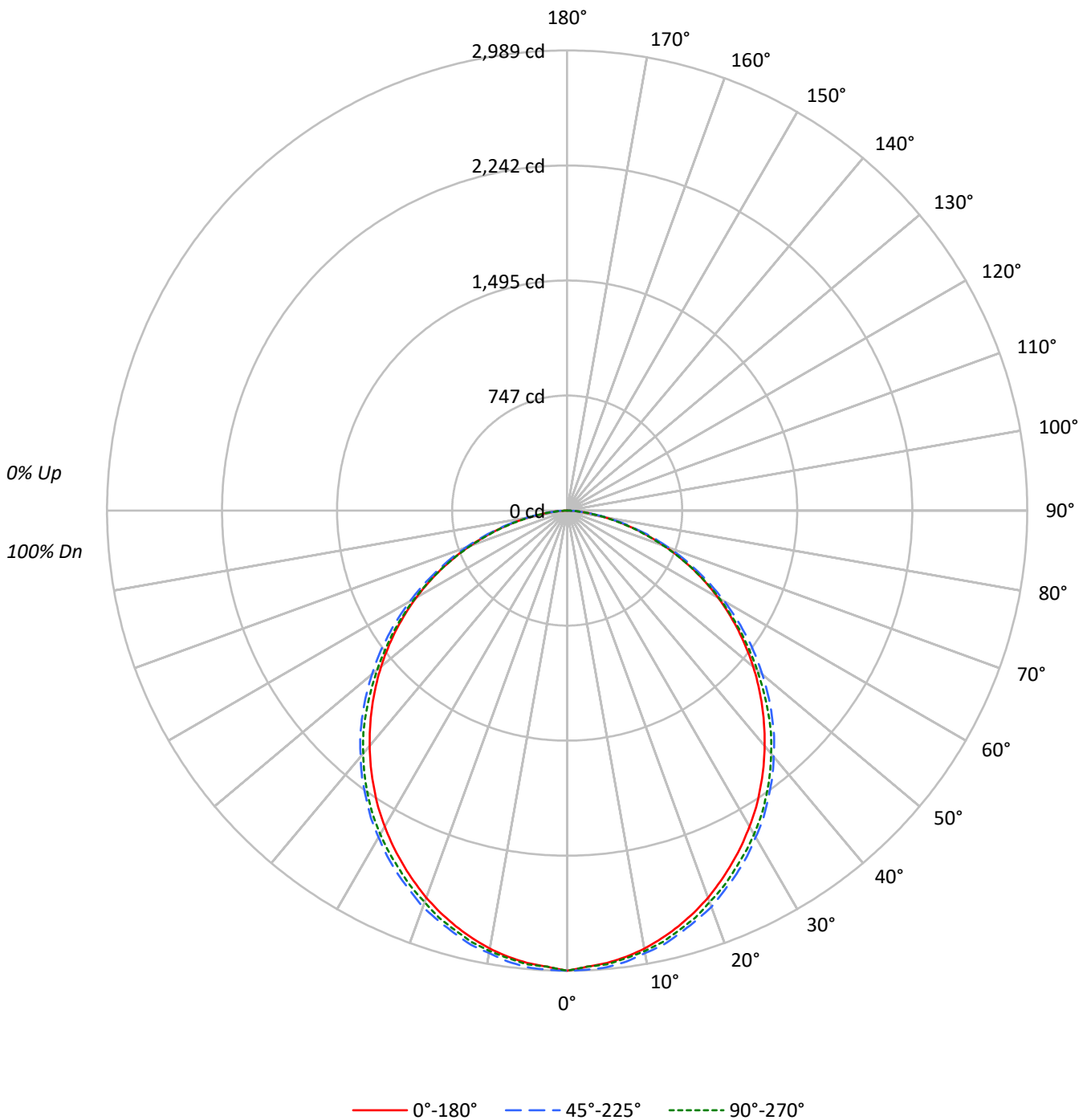
Lumens per Lamp: N/A  
Luminaire Lumens: 7857.7 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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

TEST NUMBER: P488995

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-40-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P488995

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-40-120-EDD

**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°	8043	8043	8043
5°	7968	8043	7994
10°	7896	7975	7937
15°	7786	7912	7856
20°	7663	7846	7751
25°	7514	7732	7644
30°	7362	7612	7542
35°	7197	7482	7412
40°	7009	7332	7239
45°	6813	7156	7021
50°	6608	6928	6746
55°	6368	6666	6462
60°	6097	6350	6154
65°	5746	5966	5750
70°	5287	5500	5228
75°	4656	4866	4584
80°	3783	3947	3739
85°	2634	2807	2739



TEST NUMBER: P488995

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-40-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.5	3.6
10°-20°	797.7	10.2
20°-30°	1189.7	15.1
30°-40°	1409.8	17.9
40°-50°	1426.5	18.2
50°-60°	1245.8	15.9
60°-70°	910.4	11.6
70°-80°	484.4	6.2
80°-90°	112.0	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°	2268.8	28.9
0°-40°	3678.6	46.8
0°-60°	6350.9	80.8
0°-90°	7857.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7857.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2989	2989	2989	2989	2989	
5°	2950	2956	2978	2984	2959	280
15°	2795	2814	2840	2857	2820	788
25°	2531	2562	2604	2614	2574	1166
35°	2191	2225	2278	2293	2256	1370
45°	1790	1822	1880	1882	1845	1381
55°	1357	1385	1421	1400	1377	1213
65°	902	921	937	918	903	893
75°	448	458	468	451	441	476
85°	85	87	91	92	89	108
90°	0	0	0	0	0	



TEST NUMBER: P488995

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-4STD-40-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2988.8	2988.8	2988.8	2988.8	2988.8
2.5°	2965.4	2975.1	2985.1	2989.4	2965.1
5°	2949.9	2955.5	2977.6	2984.4	2959.2
7.5°	2924.3	2932.7	2954.2	2957.3	2933.0
10°	2889.5	2904.4	2918.7	2934.3	2904.7
12.5°	2844.9	2865.2	2889.5	2892.3	2869.8
15°	2794.8	2813.5	2839.9	2857.1	2820.0
17.5°	2738.7	2756.8	2791.1	2794.2	2771.7
20°	2676.1	2698.6	2739.7	2746.8	2706.7
22.5°	2605.1	2635.4	2669.6	2676.5	2646.9
25°	2530.7	2561.9	2604.2	2613.9	2574.3
27.5°	2452.9	2482.8	2530.4	2537.3	2503.9
30°	2369.4	2397.4	2449.8	2461.3	2427.3
32.5°	2284.7	2312.7	2370.7	2380.3	2347.3
35°	2190.7	2224.9	2277.6	2293.4	2256.4
37.5°	2094.8	2128.1	2187.9	2202.2	2162.3
40°	1995.4	2028.4	2087.3	2099.1	2060.8
42.5°	1893.9	1926.9	1989.8	1991.7	1959.9
45°	1790.2	1822.0	1880.5	1882.1	1845.0
47.5°	1685.0	1717.0	1769.4	1763.4	1728.6
50°	1578.5	1609.0	1654.8	1642.9	1611.5
52.5°	1468.2	1497.8	1541.1	1521.8	1492.2
55°	1357.4	1384.8	1420.9	1400.4	1377.3
57.5°	1245.6	1273.3	1301.0	1280.2	1260.2
60°	1132.9	1157.2	1179.9	1158.7	1143.5
62.5°	1018.3	1039.1	1058.8	1038.5	1024.2
65°	902.4	920.8	937.0	918.3	903.1
67.5°	787.2	802.8	817.7	798.4	782.5
70°	672.0	685.4	699.1	679.2	664.5
72.5°	558.3	570.2	582.3	563.0	550.2
75°	447.8	458.1	468.0	450.9	440.9
77.5°	342.2	350.9	357.8	346.9	337.2
80°	244.1	250.7	254.7	250.4	241.3
82.5°	156.9	161.6	163.8	163.5	157.6
85°	85.3	86.9	90.9	91.9	88.7
87.5°	33.0	35.2	36.1	38.9	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)