

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: P488904

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-27-120-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: P488904  
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-LD4-2LO-27-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

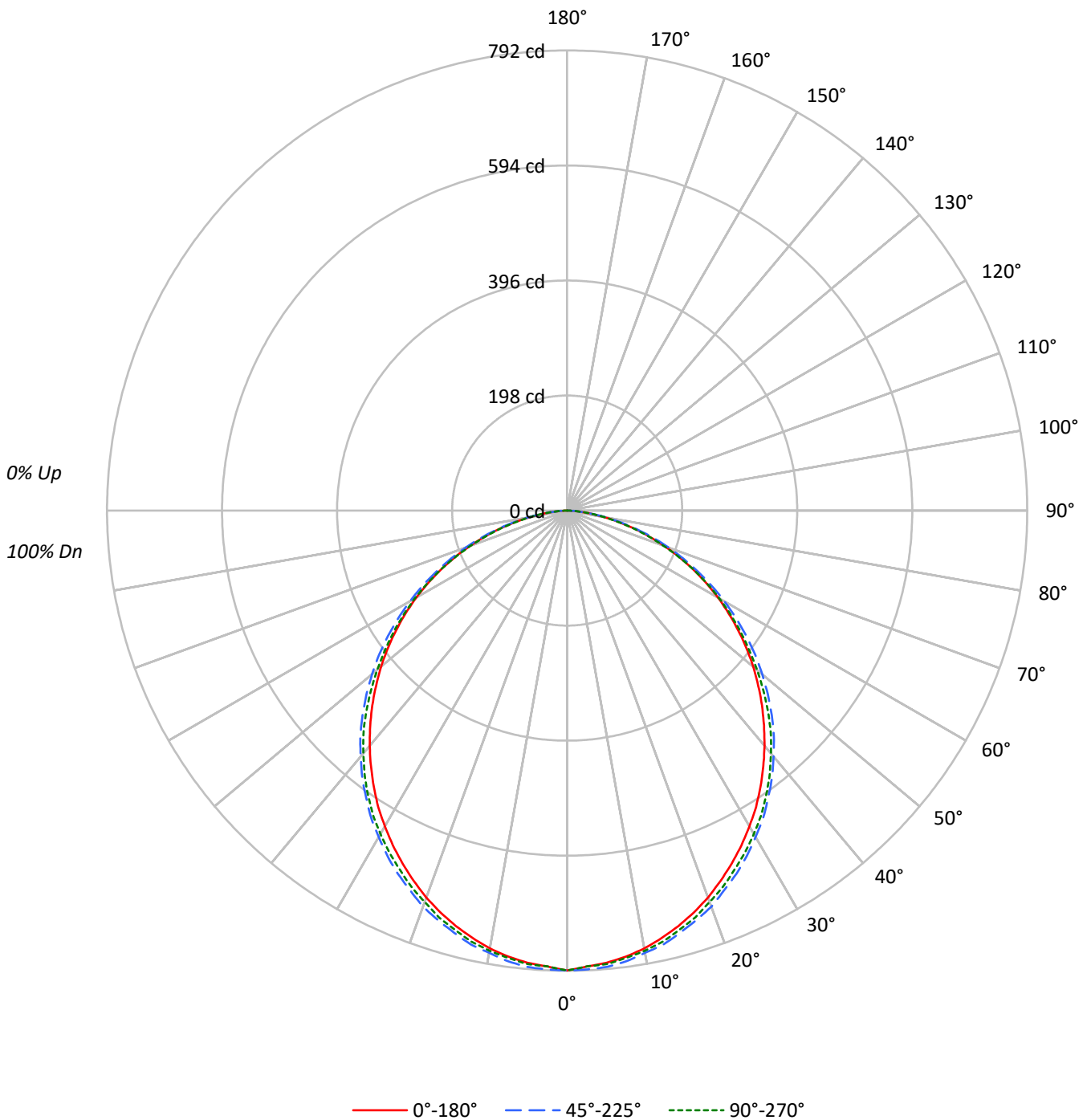
Lumens per Lamp: N/A  
Luminaire Lumens: 2080.8 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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

TEST NUMBER: P488904

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-27-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488904

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-27-120-EDD-90

**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°	2130	2130	2130
5°	2110	2130	2117
10°	2091	2112	2102
15°	2062	2095	2081
20°	2029	2078	2053
25°	1990	2048	2024
30°	1950	2016	1997
35°	1906	1981	1963
40°	1856	1942	1917
45°	1804	1895	1859
50°	1750	1834	1786
55°	1686	1765	1711
60°	1615	1681	1630
65°	1522	1580	1522
70°	1400	1456	1385
75°	1233	1288	1214
80°	1001	1046	990
85°	698	744	726



TEST NUMBER: P488904

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-27-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	3.6
10°-20°	211.2	10.2
20°-30°	315.0	15.1
30°-40°	373.3	17.9
40°-50°	377.8	18.2
50°-60°	329.9	15.9
60°-70°	241.1	11.6
70°-80°	128.3	6.2
80°-90°	29.7	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°	600.8	28.9
0°-40°	974.1	46.8
0°-60°	1681.8	80.8
0°-90°	2080.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	781	783	788	790	784	74
15°	740	745	752	757	747	209
25°	670	678	690	692	682	309
35°	580	589	603	607	598	363
45°	474	482	498	498	489	366
55°	359	367	376	371	365	321
65°	239	244	248	243	239	236
75°	119	121	124	119	117	126
85°	23	23	24	24	24	29
90°	0	0	0	0	0	



TEST NUMBER: P488904

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2LO-27-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	791.5	791.5	791.5	791.5	791.5
2.5°	785.3	787.8	790.5	791.6	785.2
5°	781.2	782.6	788.5	790.3	783.6
7.5°	774.4	776.6	782.3	783.1	776.7
10°	765.2	769.1	772.9	777.0	769.2
12.5°	753.4	758.7	765.2	765.9	760.0
15°	740.1	745.0	752.0	756.6	746.8
17.5°	725.2	730.0	739.1	739.9	734.0
20°	708.7	714.6	725.5	727.4	716.8
22.5°	689.9	697.9	706.9	708.8	700.9
25°	670.2	678.4	689.6	692.2	681.7
27.5°	649.5	657.5	670.1	671.9	663.1
30°	627.4	634.9	648.7	651.8	642.8
32.5°	605.0	612.4	627.8	630.3	621.6
35°	580.1	589.2	603.1	607.3	597.5
37.5°	554.7	563.5	579.4	583.2	572.6
40°	528.4	537.2	552.7	555.9	545.7
42.5°	501.5	510.3	526.9	527.4	519.0
45°	474.1	482.5	498.0	498.4	488.6
47.5°	446.2	454.7	468.5	467.0	457.7
50°	418.0	426.1	438.2	435.1	426.7
52.5°	388.8	396.6	408.1	403.0	395.2
55°	359.4	366.7	376.3	370.8	364.7
57.5°	329.8	337.2	344.5	339.0	333.7
60°	300.0	306.4	312.4	306.8	302.8
62.5°	269.6	275.2	280.4	275.0	271.2
65°	239.0	243.8	248.1	243.2	239.1
67.5°	208.5	212.6	216.5	211.4	207.2
70°	178.0	181.5	185.1	179.8	176.0
72.5°	147.9	151.0	154.2	149.1	145.7
75°	118.6	121.3	123.9	119.4	116.8
77.5°	90.6	92.9	94.7	91.9	89.3
80°	64.6	66.4	67.5	66.3	63.9
82.5°	41.6	42.8	43.4	43.3	41.7
85°	22.6	23.0	24.1	24.3	23.5
87.5°	8.7	9.3	9.6	10.3	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)