

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: P488909

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-35-120-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: P488909  
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-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

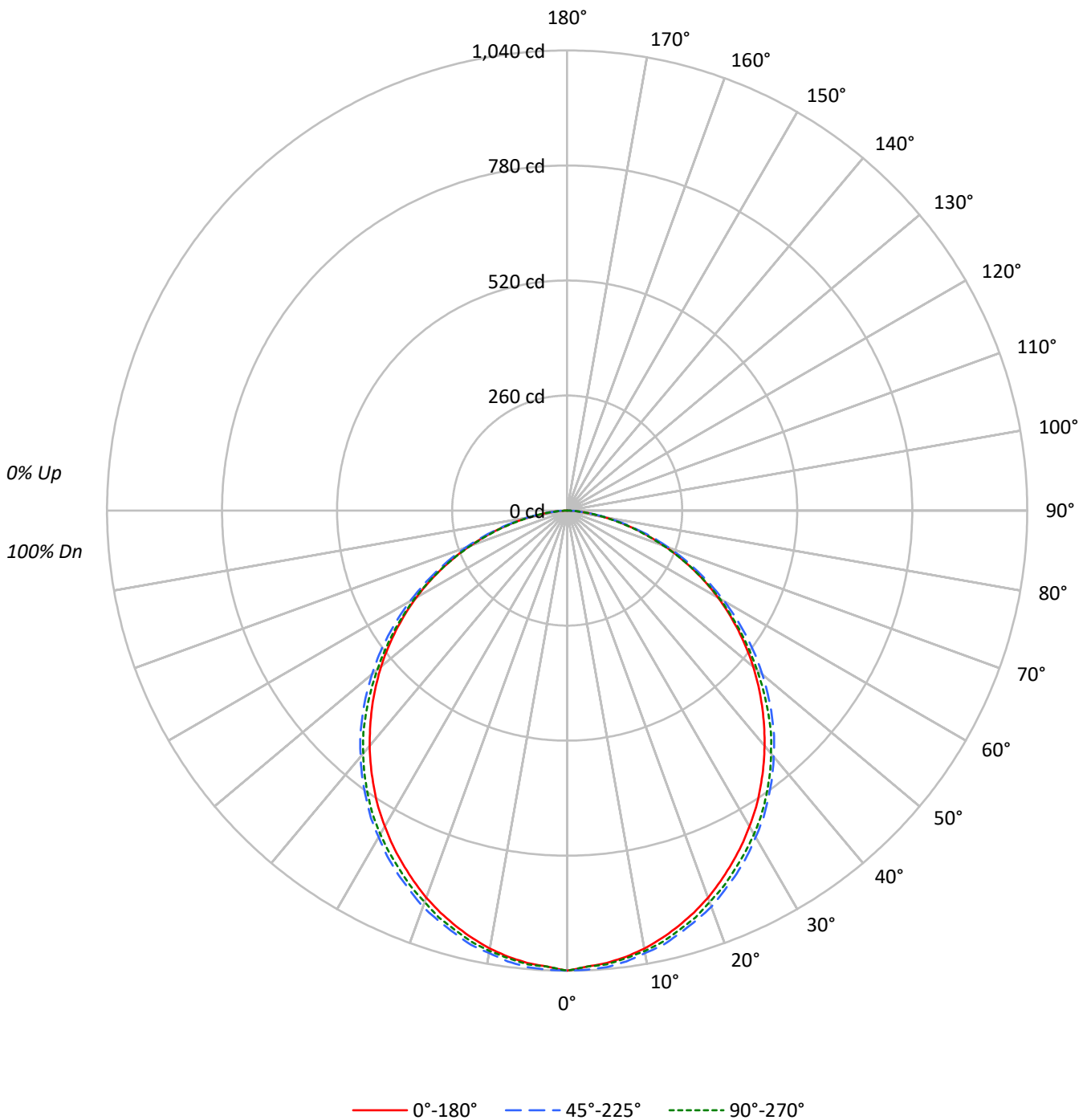
Lumens per Lamp: N/A  
Luminaire Lumens: 2733.5 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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

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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	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°	2798	2798	2798
5°	2772	2798	2781
10°	2747	2775	2761
15°	2708	2752	2733
20°	2666	2729	2696
25°	2614	2690	2659
30°	2561	2648	2624
35°	2504	2603	2578
40°	2439	2551	2518
45°	2370	2490	2442
50°	2299	2410	2347
55°	2215	2319	2248
60°	2121	2209	2141
65°	1999	2076	2000
70°	1840	1913	1819
75°	1620	1693	1595
80°	1316	1373	1302
85°	917	976	954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	3.6
10°-20°	277.5	10.2
20°-30°	413.9	15.1
30°-40°	490.4	17.9
40°-50°	496.2	18.2
50°-60°	433.4	15.9
60°-70°	316.7	11.6
70°-80°	168.5	6.2
80°-90°	38.9	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°	789.3	28.9
0°-40°	1279.7	46.8
0°-60°	2209.3	80.8
0°-90°	2733.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2733.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1026	1028	1036	1038	1029	97
15°	972	979	988	994	981	274
25°	880	891	906	909	896	406
35°	762	774	792	798	785	477
45°	623	634	654	655	642	480
55°	472	482	494	487	479	422
65°	314	320	326	320	314	311
75°	156	159	163	157	153	166
85°	30	30	32	32	31	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1031.6	1035.0	1038.4	1039.9	1031.5
5°	1026.2	1028.1	1035.8	1038.2	1029.4
7.5°	1017.3	1020.2	1027.7	1028.8	1020.3
10°	1005.2	1010.4	1015.4	1020.8	1010.5
12.5°	989.7	996.7	1005.2	1006.1	998.3
15°	972.2	978.7	987.9	993.9	981.0
17.5°	952.7	959.0	970.9	972.0	964.2
20°	931.0	938.8	953.1	955.6	941.6
22.5°	906.3	916.8	928.7	931.1	920.8
25°	880.4	891.2	905.9	909.3	895.5
27.5°	853.3	863.7	880.3	882.7	871.1
30°	824.3	834.0	852.2	856.2	844.4
32.5°	794.8	804.5	824.7	828.1	816.6
35°	762.1	774.0	792.3	797.8	784.9
37.5°	728.7	740.3	761.1	766.1	752.2
40°	694.2	705.6	726.1	730.2	716.9
42.5°	658.8	670.3	692.2	692.9	681.8
45°	622.8	633.8	654.2	654.7	641.8
47.5°	586.2	597.3	615.5	613.5	601.3
50°	549.1	559.7	575.7	571.5	560.6
52.5°	510.8	521.1	536.1	529.4	519.1
55°	472.2	481.7	494.3	487.1	479.1
57.5°	433.3	443.0	452.6	445.3	438.4
60°	394.1	402.5	410.5	403.1	397.8
62.5°	354.2	361.5	368.3	361.3	356.3
65°	313.9	320.3	326.0	319.5	314.1
67.5°	273.9	279.3	284.5	277.8	272.2
70°	233.8	238.4	243.2	236.3	231.2
72.5°	194.2	198.3	202.6	195.9	191.4
75°	155.8	159.3	162.8	156.9	153.4
77.5°	119.1	122.1	124.5	120.7	117.3
80°	84.9	87.2	88.6	87.1	84.0
82.5°	54.6	56.2	57.0	56.9	54.8
85°	29.7	30.2	31.6	32.0	30.9
87.5°	11.5	12.2	12.6	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)