

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: P488913

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-50-120-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: P488913  
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-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

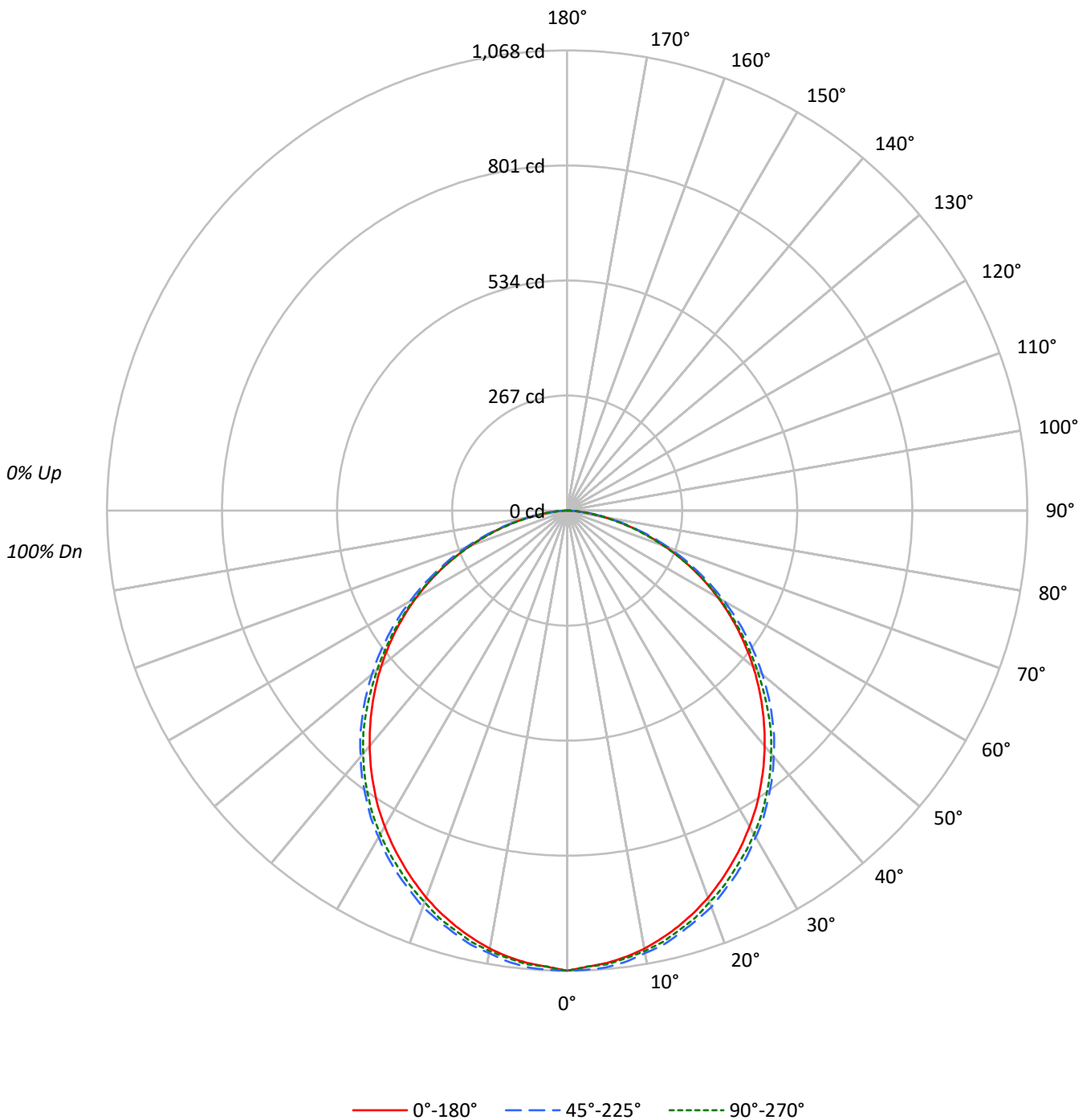
Lumens per Lamp: N/A  
Luminaire Lumens: 2807.6 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	2874	2874	2874
5°	2847	2874	2856
10°	2821	2850	2836
15°	2782	2827	2807
20°	2738	2803	2769
25°	2685	2763	2731
30°	2631	2720	2695
35°	2571	2673	2648
40°	2505	2620	2586
45°	2434	2557	2509
50°	2361	2475	2411
55°	2275	2382	2309
60°	2179	2269	2199
65°	2053	2132	2055
70°	1889	1965	1868
75°	1664	1738	1638
80°	1351	1410	1336
85°	942	1003	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.6	3.6
10°-20°	285.0	10.2
20°-30°	425.1	15.1
30°-40°	503.7	17.9
40°-50°	509.7	18.2
50°-60°	445.1	15.9
60°-70°	325.3	11.6
70°-80°	173.1	6.2
80°-90°	40.0	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°	810.7	28.9
0°-40°	1314.4	46.8
0°-60°	2269.2	80.8
0°-90°	2807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1054	1056	1064	1066	1057	100
15°	999	1005	1015	1021	1008	282
25°	904	915	930	934	920	417
35°	783	795	814	820	806	489
45°	640	651	672	672	659	493
55°	485	495	508	500	492	434
65°	322	329	335	328	323	319
75°	160	164	167	161	158	170
85°	30	31	32	33	32	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1067.9	1067.9	1067.9	1067.9	1067.9
2.5°	1059.6	1063.0	1066.6	1068.1	1059.5
5°	1054.0	1056.0	1063.9	1066.4	1057.3
7.5°	1044.9	1047.9	1055.6	1056.7	1048.0
10°	1032.4	1037.8	1042.9	1048.4	1037.9
12.5°	1016.5	1023.7	1032.4	1033.4	1025.4
15°	998.6	1005.3	1014.7	1020.8	1007.6
17.5°	978.6	985.0	997.3	998.4	990.4
20°	956.2	964.2	978.9	981.5	967.1
22.5°	930.8	941.6	953.9	956.3	945.7
25°	904.2	915.4	930.5	933.9	919.8
27.5°	876.4	887.1	904.1	906.6	894.7
30°	846.6	856.6	875.3	879.4	867.3
32.5°	816.3	826.4	847.1	850.5	838.7
35°	782.7	795.0	813.8	819.5	806.2
37.5°	748.5	760.4	781.7	786.9	772.6
40°	713.0	724.8	745.8	750.0	736.3
42.5°	676.7	688.5	711.0	711.6	700.3
45°	639.7	651.0	671.9	672.5	659.2
47.5°	602.0	613.5	632.2	630.1	617.6
50°	564.0	574.9	591.3	587.0	575.8
52.5°	524.6	535.2	550.6	543.7	533.2
55°	485.0	494.8	507.7	500.4	492.1
57.5°	445.1	455.0	464.9	457.4	450.3
60°	404.8	413.5	421.6	414.0	408.6
62.5°	363.8	371.3	378.3	371.1	365.9
65°	322.4	329.0	334.8	328.1	322.7
67.5°	281.3	286.8	292.2	285.3	279.6
70°	240.1	244.9	249.8	242.7	237.4
72.5°	199.5	203.7	208.1	201.2	196.6
75°	160.0	163.7	167.2	161.1	157.5
77.5°	122.3	125.4	127.8	123.9	120.5
80°	87.2	89.6	91.0	89.5	86.2
82.5°	56.1	57.7	58.5	58.4	56.3
85°	30.5	31.0	32.5	32.8	31.7
87.5°	11.8	12.6	12.9	13.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)