

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: P488865

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1HI-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: P488865  
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-LD4-1HI-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

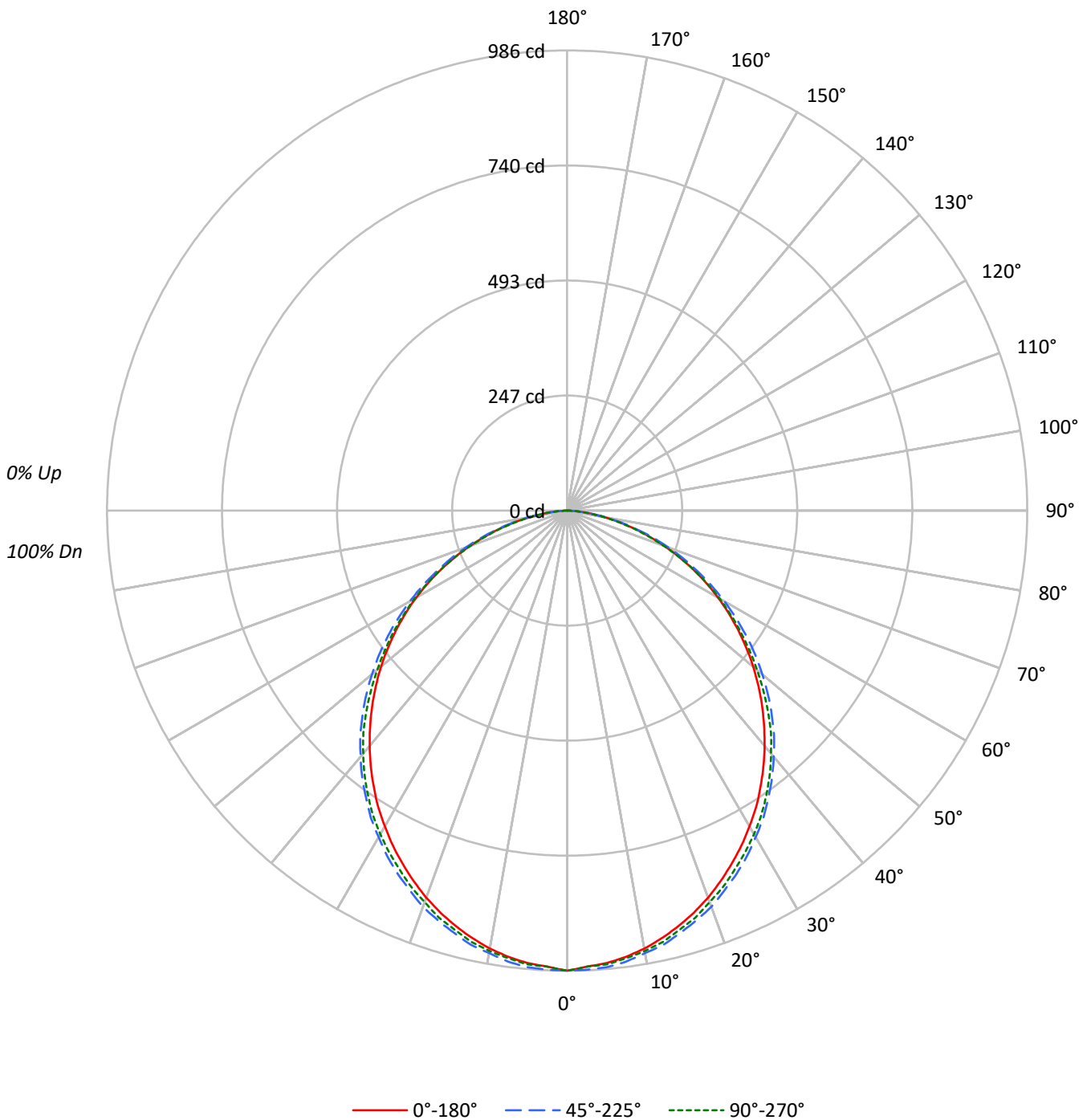
Lumens per Lamp: N/A  
Luminaire Lumens: 2591.7 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.6  
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

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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°	2653	2653	2653
5°	2628	2653	2636
10°	2604	2631	2618
15°	2568	2610	2591
20°	2528	2588	2556
25°	2478	2550	2521
30°	2428	2511	2488
35°	2374	2468	2445
40°	2312	2419	2388
45°	2247	2361	2316
50°	2179	2285	2225
55°	2100	2199	2131
60°	2011	2095	2030
65°	1895	1968	1897
70°	1744	1814	1725
75°	1536	1605	1512
80°	1247	1302	1234
85°	868	926	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	3.6
10°-20°	263.1	10.2
20°-30°	392.4	15.1
30°-40°	465.0	17.9
40°-50°	470.5	18.2
50°-60°	410.9	15.9
60°-70°	300.3	11.6
70°-80°	159.8	6.2
80°-90°	36.9	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°	748.3	28.9
0°-40°	1213.3	46.8
0°-60°	2094.7	80.8
0°-90°	2591.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2591.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	973	975	982	984	976	92
15°	922	928	937	942	930	260
25°	835	845	859	862	849	385
35°	723	734	751	756	744	452
45°	590	601	620	621	608	456
55°	448	457	469	462	454	400
65°	298	304	309	303	298	295
75°	148	151	154	149	145	157
85°	28	29	30	30	29	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	985.8	985.8	985.8	985.8	985.8
2.5°	978.1	981.3	984.6	986.0	978.0
5°	973.0	974.8	982.1	984.4	976.0
7.5°	964.5	967.3	974.4	975.4	967.4
10°	953.0	958.0	962.7	967.8	958.1
12.5°	938.3	945.0	953.0	954.0	946.6
15°	921.8	928.0	936.7	942.3	930.1
17.5°	903.3	909.3	920.6	921.6	914.2
20°	882.7	890.1	903.6	906.0	892.7
22.5°	859.3	869.2	880.5	882.8	873.0
25°	834.7	845.0	858.9	862.1	849.1
27.5°	809.0	818.9	834.6	836.9	825.9
30°	781.5	790.7	808.0	811.8	800.6
32.5°	753.6	762.8	781.9	785.1	774.2
35°	722.6	733.8	751.2	756.4	744.2
37.5°	690.9	701.9	721.6	726.4	713.2
40°	658.2	669.0	688.5	692.4	679.7
42.5°	624.7	635.6	656.3	656.9	646.4
45°	590.5	600.9	620.3	620.8	608.5
47.5°	555.8	566.3	583.6	581.6	570.1
50°	520.6	530.7	545.8	541.9	531.5
52.5°	484.3	494.0	508.3	501.9	492.2
55°	447.7	456.7	468.7	461.9	454.3
57.5°	410.8	420.0	429.1	422.2	415.7
60°	373.7	381.7	389.2	382.2	377.1
62.5°	335.9	342.7	349.2	342.5	337.8
65°	297.6	303.7	309.0	302.9	297.9
67.5°	259.6	264.8	269.7	263.3	258.1
70°	221.6	226.1	230.6	224.0	219.2
72.5°	184.2	188.1	192.1	185.7	181.5
75°	147.7	151.1	154.4	148.7	145.4
77.5°	112.9	115.8	118.0	114.4	111.2
80°	80.5	82.7	84.0	82.6	79.6
82.5°	51.8	53.3	54.0	53.9	52.0
85°	28.1	28.7	30.0	30.3	29.3
87.5°	10.9	11.6	11.9	12.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)