

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: P488341

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-27-120-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: P488341  
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-12-2-INS-A12125-LD4-1STD-27-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

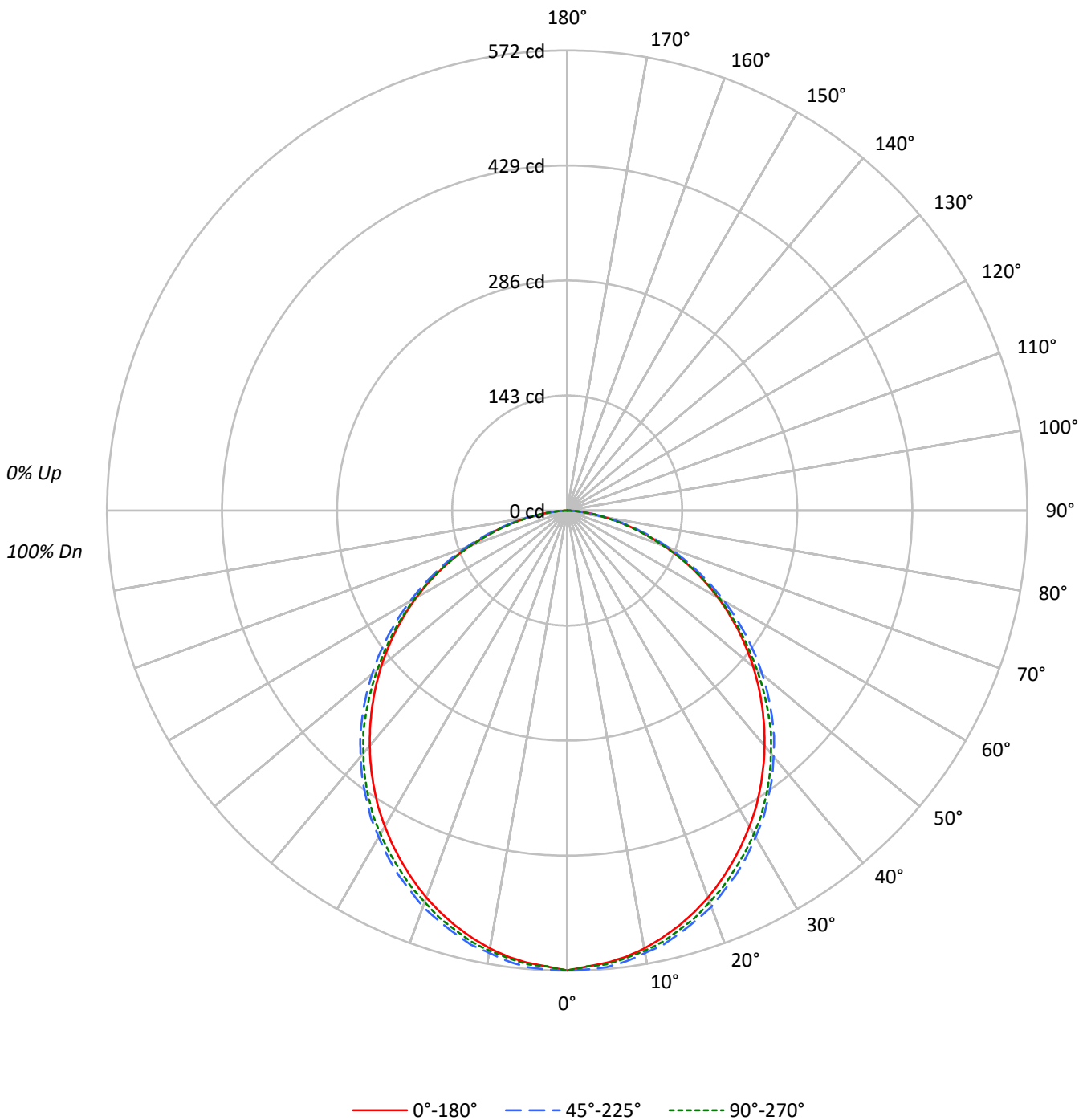
Lumens per Lamp: N/A  
Luminaire Lumens: 1503.1 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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	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°	3077	3077	3077
5°	3049	3077	3058
10°	3020	3051	3036
15°	2979	3027	3005
20°	2932	3002	2966
25°	2875	2958	2924
30°	2816	2912	2885
35°	2754	2863	2836
40°	2682	2805	2770
45°	2607	2738	2686
50°	2528	2650	2581
55°	2437	2550	2472
60°	2333	2429	2354
65°	2198	2282	2199
70°	2022	2104	2000
75°	1782	1861	1753
80°	1447	1509	1432
85°	1007	1074	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	3.6
10°-20°	152.6	10.2
20°-30°	227.6	15.1
30°-40°	269.7	17.9
40°-50°	272.9	18.2
50°-60°	238.3	15.9
60°-70°	174.1	11.6
70°-80°	92.7	6.2
80°-90°	21.4	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°	434.0	28.9
0°-40°	703.7	46.8
0°-60°	1214.9	80.8
0°-90°	1503.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1503.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	564	565	570	571	566	54
15°	535	538	543	546	539	151
25°	484	490	498	500	492	223
35°	419	426	436	439	432	262
45°	342	348	360	360	353	264
55°	260	265	272	268	264	232
65°	173	176	179	176	173	171
75°	86	88	90	86	84	91
85°	16	17	17	18	17	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	571.7	571.7	571.7	571.7	571.7
2.5°	567.3	569.1	571.0	571.8	567.2
5°	564.3	565.4	569.6	570.9	566.1
7.5°	559.4	561.0	565.1	565.7	561.1
10°	552.7	555.6	558.3	561.3	555.6
12.5°	544.2	548.1	552.7	553.3	549.0
15°	534.6	538.2	543.3	546.5	539.4
17.5°	523.9	527.3	533.9	534.5	530.2
20°	511.9	516.2	524.1	525.4	517.8
22.5°	498.3	504.1	510.7	512.0	506.3
25°	484.1	490.1	498.2	500.0	492.4
27.5°	469.2	474.9	484.0	485.4	479.0
30°	453.2	458.6	468.6	470.8	464.3
32.5°	437.0	442.4	453.5	455.3	449.0
35°	419.1	425.6	435.7	438.7	431.6
37.5°	400.7	407.1	418.5	421.3	413.6
40°	381.7	388.0	399.3	401.5	394.2
42.5°	362.3	368.6	380.6	381.0	374.9
45°	342.5	348.5	359.7	360.0	352.9
47.5°	322.3	328.5	338.5	337.3	330.7
50°	301.9	307.8	316.5	314.3	308.3
52.5°	280.9	286.5	294.8	291.1	285.4
55°	259.7	264.9	271.8	267.9	263.5
57.5°	238.3	243.6	248.9	244.9	241.1
60°	216.7	221.4	225.7	221.6	218.7
62.5°	194.8	198.8	202.5	198.7	195.9
65°	172.6	176.1	179.2	175.7	172.7
67.5°	150.6	153.6	156.4	152.7	149.7
70°	128.5	131.1	133.7	129.9	127.1
72.5°	106.8	109.1	111.4	107.7	105.3
75°	85.7	87.6	89.5	86.3	84.3
77.5°	65.5	67.1	68.4	66.4	64.5
80°	46.7	48.0	48.7	47.9	46.2
82.5°	30.0	30.9	31.3	31.3	30.1
85°	16.3	16.6	17.4	17.6	17.0
87.5°	6.3	6.7	6.9	7.4	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)