

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: P488342

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-30-120-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: P488342  
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-30-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

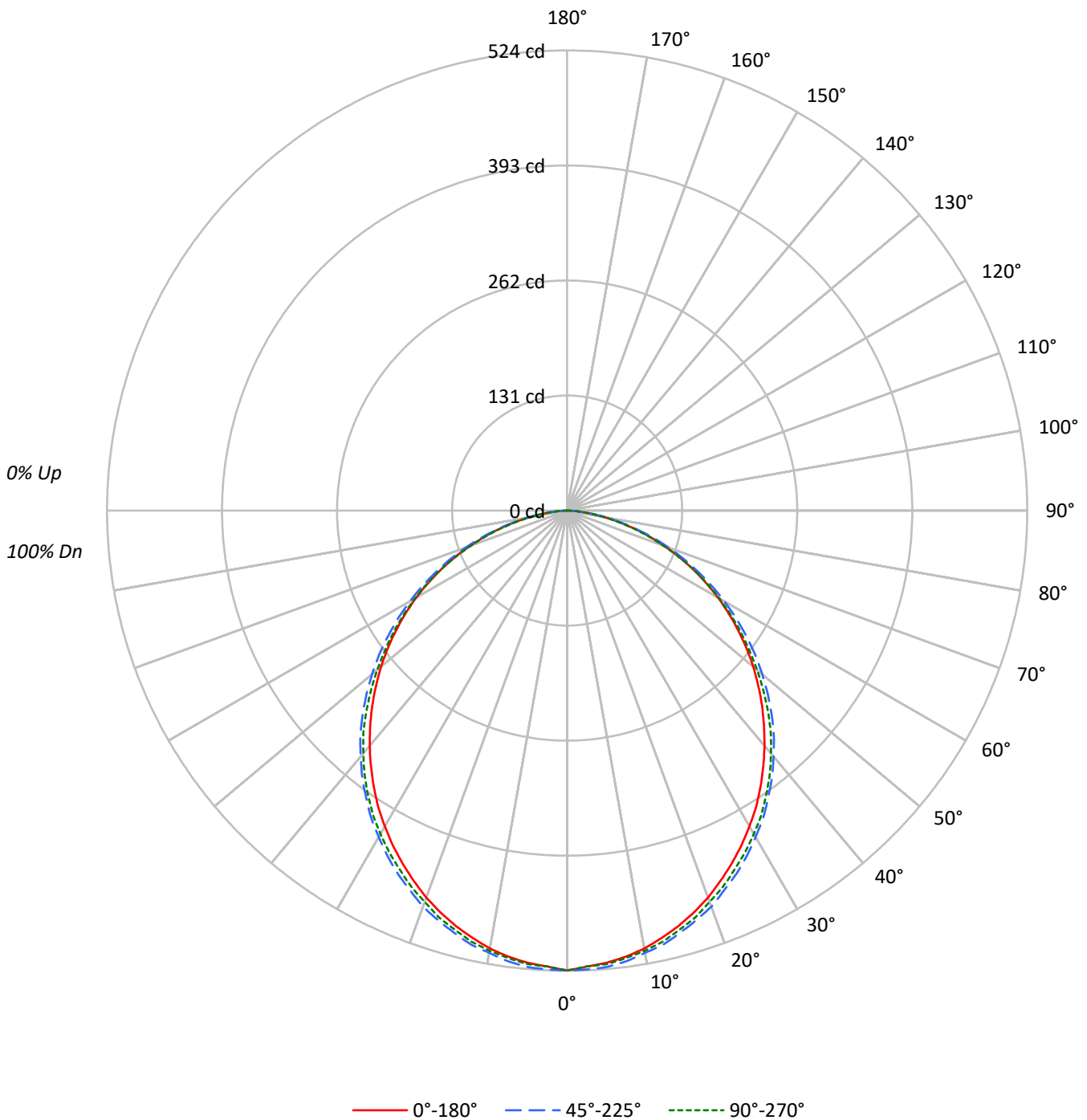
Lumens per Lamp: N/A  
Luminaire Lumens: 1376.7 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	2818	2818	2818
5°	2792	2818	2801
10°	2766	2795	2781
15°	2729	2773	2753
20°	2686	2749	2716
25°	2633	2710	2678
30°	2580	2667	2643
35°	2522	2621	2597
40°	2456	2569	2537
45°	2388	2508	2461
50°	2316	2427	2364
55°	2231	2335	2264
60°	2137	2225	2156
65°	2013	2091	2015
70°	1852	1928	1832
75°	1632	1705	1607
80°	1327	1382	1311
85°	920	982	957



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	3.6
10°-20°	139.8	10.2
20°-30°	208.4	15.1
30°-40°	247.0	17.9
40°-50°	249.9	18.2
50°-60°	218.3	15.9
60°-70°	159.5	11.6
70°-80°	84.9	6.2
80°-90°	19.6	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°	397.5	28.9
0°-40°	644.5	46.8
0°-60°	1112.7	80.8
0°-90°	1376.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	517	518	522	523	518	49
15°	490	493	498	501	494	138
25°	443	449	456	458	451	204
35°	384	390	399	402	395	240
45°	314	319	330	330	323	242
55°	238	243	249	245	241	213
65°	158	161	164	161	158	156
75°	78	80	82	79	77	83
85°	15	15	16	16	16	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	523.6	523.6	523.6	523.6	523.6
2.5°	519.6	521.2	523.0	523.8	519.5
5°	516.8	517.8	521.7	522.9	518.5
7.5°	512.4	513.8	517.6	518.1	513.9
10°	506.2	508.9	511.4	514.1	508.9
12.5°	498.4	502.0	506.2	506.7	502.8
15°	489.7	492.9	497.6	500.6	494.1
17.5°	479.8	483.0	489.0	489.5	485.6
20°	468.9	472.8	480.0	481.3	474.2
22.5°	456.4	461.7	467.7	468.9	463.7
25°	443.4	448.8	456.3	458.0	451.0
27.5°	429.8	435.0	443.3	444.5	438.7
30°	415.1	420.0	429.2	431.2	425.3
32.5°	400.3	405.2	415.4	417.0	411.3
35°	383.8	389.8	399.0	401.8	395.3
37.5°	367.0	372.8	383.3	385.8	378.9
40°	349.6	355.4	365.7	367.8	361.1
42.5°	331.8	337.6	348.6	349.0	343.4
45°	313.7	319.2	329.5	329.7	323.3
47.5°	295.2	300.8	310.0	309.0	302.9
50°	276.6	281.9	289.9	287.8	282.3
52.5°	257.2	262.4	270.0	266.6	261.4
55°	237.8	242.6	248.9	245.3	241.3
57.5°	218.2	223.1	227.9	224.3	220.8
60°	198.5	202.7	206.7	203.0	200.3
62.5°	178.4	182.1	185.5	182.0	179.4
65°	158.1	161.3	164.2	160.9	158.2
67.5°	137.9	140.7	143.3	139.9	137.1
70°	117.7	120.1	122.5	119.0	116.4
72.5°	97.8	99.9	102.0	98.6	96.4
75°	78.5	80.3	82.0	79.0	77.3
77.5°	60.0	61.5	62.7	60.8	59.1
80°	42.8	43.9	44.6	43.9	42.3
82.5°	27.5	28.3	28.7	28.6	27.6
85°	14.9	15.2	15.9	16.1	15.5
87.5°	5.8	6.2	6.3	6.8	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)