

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: P488348

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1STD-50-120-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: P488348  
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-50-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

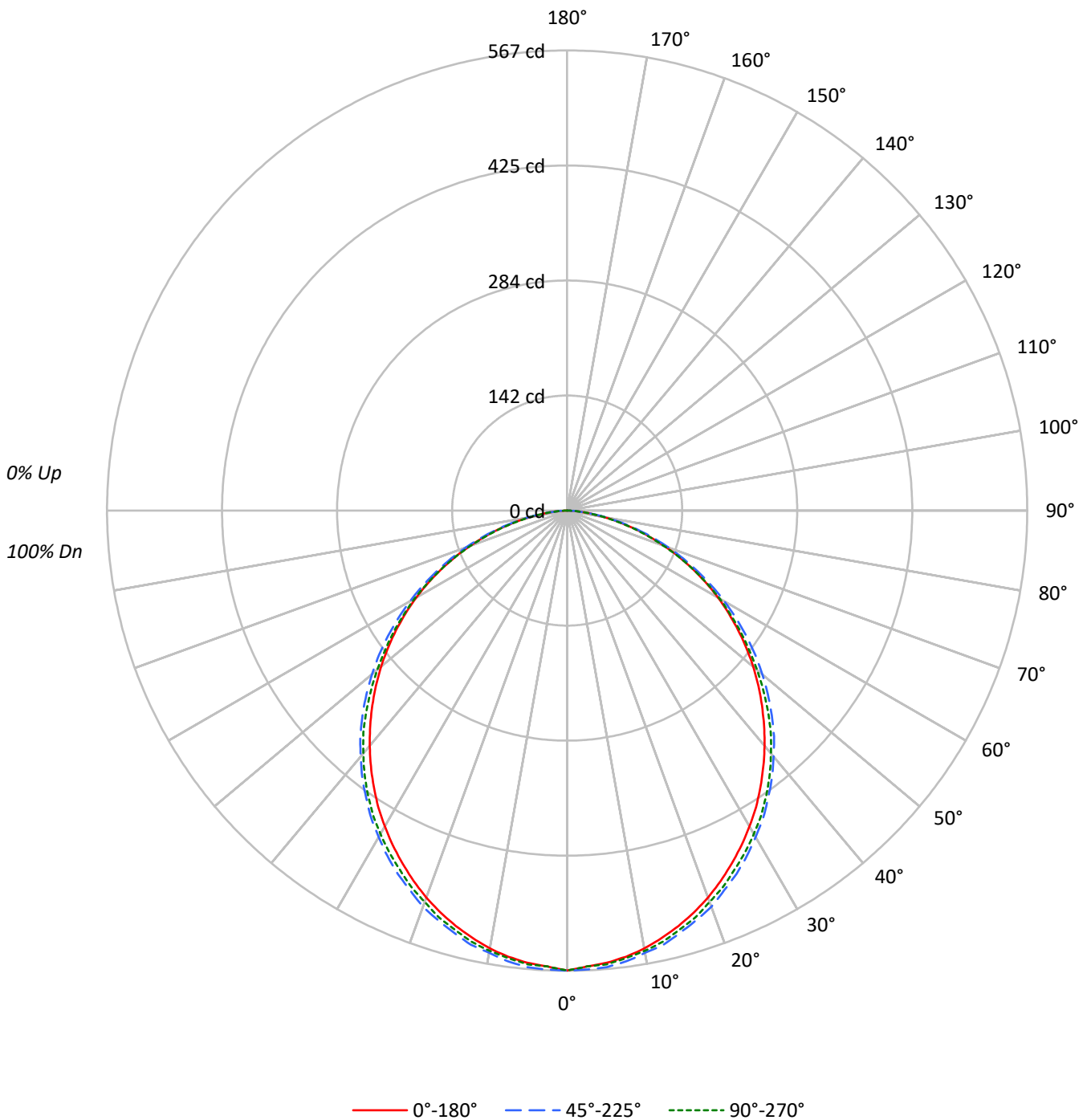
Lumens per Lamp: N/A  
Luminaire Lumens: 1489.9 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	3050	3050	3050
5°	3022	3050	3031
10°	2994	3024	3010
15°	2953	3000	2979
20°	2906	2975	2939
25°	2850	2932	2899
30°	2792	2887	2860
35°	2729	2837	2811
40°	2659	2781	2746
45°	2583	2714	2662
50°	2506	2627	2559
55°	2415	2528	2451
60°	2312	2408	2334
65°	2179	2263	2180
70°	2005	2087	1983
75°	1765	1844	1738
80°	1435	1497	1420
85°	1000	1062	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	3.6
10°-20°	151.2	10.2
20°-30°	225.6	15.1
30°-40°	267.3	17.9
40°-50°	270.5	18.2
50°-60°	236.2	15.9
60°-70°	172.6	11.6
70°-80°	91.8	6.2
80°-90°	21.2	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°	430.2	28.9
0°-40°	697.5	46.8
0°-60°	1204.2	80.8
0°-90°	1489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	559	560	565	566	561	53
15°	530	534	538	542	535	149
25°	480	486	494	496	488	221
35°	415	422	432	435	428	260
45°	339	346	357	357	350	262
55°	257	263	269	266	261	230
65°	171	175	178	174	171	169
75°	85	87	89	86	84	90
85°	16	16	17	17	17	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	566.7	566.7	566.7	566.7	566.7
2.5°	562.3	564.1	566.0	566.8	562.2
5°	559.3	560.4	564.6	565.9	561.1
7.5°	554.5	556.1	560.2	560.7	556.1
10°	547.9	550.7	553.4	556.4	550.8
12.5°	539.4	543.3	547.9	548.4	544.2
15°	529.9	533.5	538.5	541.7	534.7
17.5°	519.3	522.7	529.2	529.8	525.6
20°	507.4	511.7	519.5	520.8	513.2
22.5°	494.0	499.7	506.2	507.5	501.9
25°	479.9	485.8	493.8	495.6	488.1
27.5°	465.1	470.8	479.8	481.1	474.8
30°	449.3	454.6	464.5	466.7	460.2
32.5°	433.2	438.5	449.5	451.3	445.1
35°	415.4	421.9	431.8	434.9	427.8
37.5°	397.2	403.5	414.8	417.6	410.0
40°	378.4	384.6	395.8	398.0	390.8
42.5°	359.1	365.4	377.3	377.6	371.6
45°	339.4	345.5	356.6	356.9	349.8
47.5°	319.5	325.6	335.5	334.4	327.8
50°	299.3	305.1	313.8	311.5	305.6
52.5°	278.4	284.0	292.2	288.5	282.9
55°	257.4	262.6	269.4	265.5	261.2
57.5°	236.2	241.4	246.7	242.7	239.0
60°	214.8	219.4	223.7	219.7	216.8
62.5°	193.1	197.0	200.7	196.9	194.2
65°	171.1	174.6	177.7	174.1	171.2
67.5°	149.3	152.2	155.0	151.4	148.4
70°	127.4	130.0	132.6	128.8	126.0
72.5°	105.9	108.1	110.4	106.8	104.3
75°	84.9	86.9	88.7	85.5	83.6
77.5°	64.9	66.5	67.8	65.8	63.9
80°	46.3	47.5	48.3	47.5	45.8
82.5°	29.8	30.6	31.1	31.0	29.9
85°	16.2	16.5	17.2	17.4	16.8
87.5°	6.3	6.7	6.8	7.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)