

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: P488378

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-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: P488378  
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-LD4-2STD-30-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

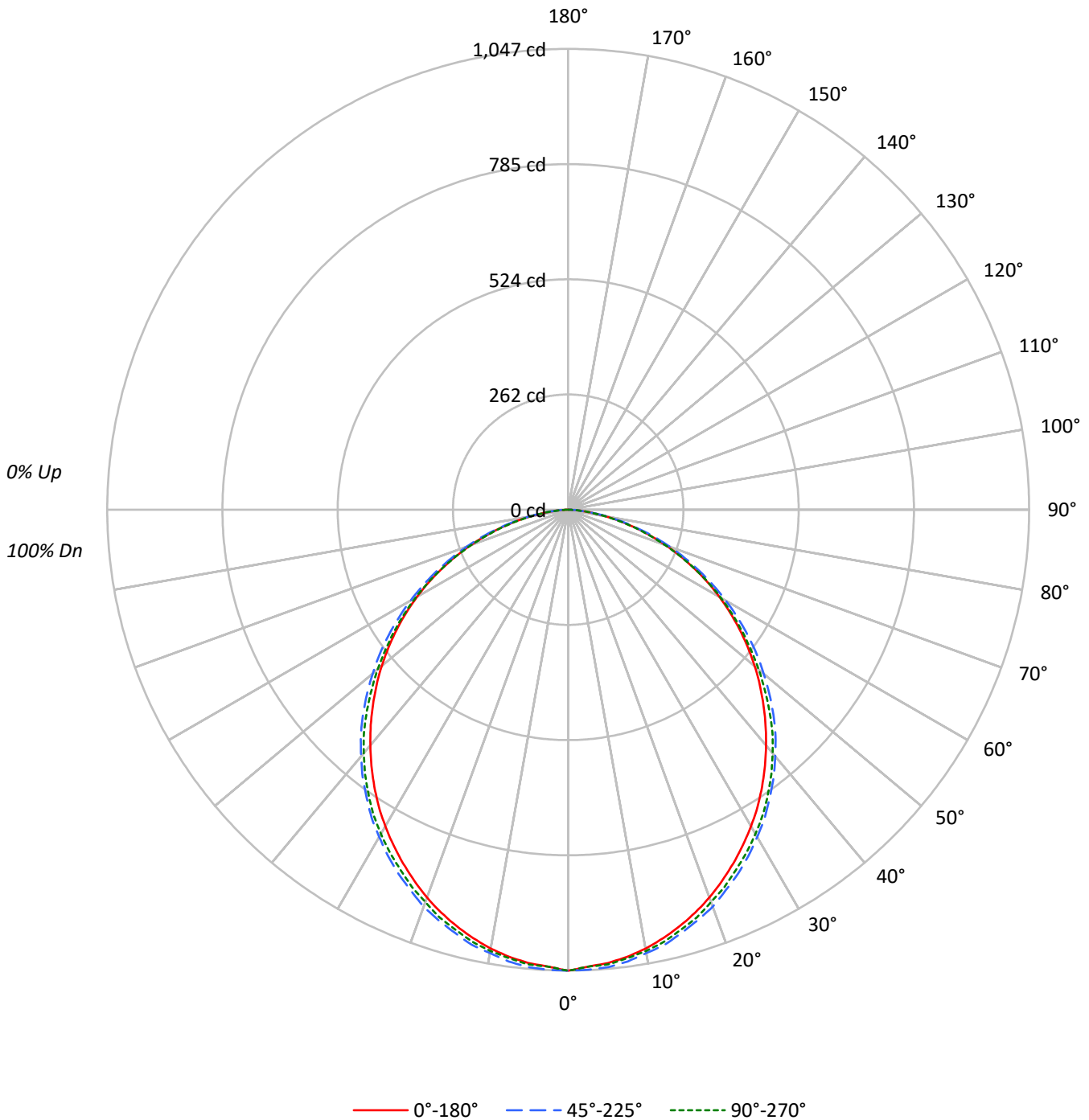
Lumens per Lamp: N/A  
Luminaire Lumens: 2753.5 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5637	5637	5637
5°	5585	5637	5602
10°	5533	5590	5563
15°	5457	5545	5506
20°	5371	5498	5432
25°	5266	5419	5357
30°	5160	5335	5286
35°	5044	5244	5195
40°	4912	5139	5074
45°	4775	5016	4921
50°	4631	4855	4728
55°	4464	4672	4528
60°	4273	4451	4313
65°	4027	4181	4029
70°	3706	3855	3665
75°	3263	3410	3213
80°	2653	2768	2622
85°	1846	1970	1920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	3.6
10°-20°	279.5	10.2
20°-30°	416.9	15.1
30°-40°	494.0	17.9
40°-50°	499.9	18.2
50°-60°	436.6	15.9
60°-70°	319.0	11.6
70°-80°	169.8	6.2
80°-90°	39.2	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°	795.0	28.9
0°-40°	1289.1	46.8
0°-60°	2225.5	80.8
0°-90°	2753.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1034	1036	1043	1046	1037	98
15°	979	986	995	1001	988	276
25°	887	898	913	916	902	409
35°	768	780	798	804	791	480
45°	627	638	659	660	646	484
55°	476	485	498	491	483	425
65°	316	323	328	322	316	313
75°	157	160	164	158	154	167
85°	30	30	32	32	31	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1039.1	1042.5	1046.0	1047.6	1039.0
5°	1033.7	1035.7	1043.4	1045.8	1037.0
7.5°	1024.7	1027.7	1035.2	1036.3	1027.8
10°	1012.5	1017.8	1022.8	1028.2	1017.9
12.5°	996.9	1004.0	1012.5	1013.5	1005.6
15°	979.4	985.9	995.2	1001.2	988.2
17.5°	959.7	966.0	978.0	979.1	971.3
20°	937.8	945.6	960.0	962.5	948.5
22.5°	912.9	923.5	935.5	937.9	927.5
25°	886.8	897.7	912.6	916.0	902.1
27.5°	859.5	870.0	886.7	889.1	877.4
30°	830.3	840.1	858.4	862.5	850.6
32.5°	800.6	810.4	830.7	834.1	822.5
35°	767.7	779.7	798.1	803.7	790.7
37.5°	734.0	745.7	766.7	771.7	757.7
40°	699.2	710.8	731.4	735.6	722.2
42.5°	663.7	675.2	697.3	697.9	686.8
45°	627.3	638.5	659.0	659.5	646.5
47.5°	590.4	601.7	620.0	617.9	605.7
50°	553.1	563.8	579.9	575.7	564.7
52.5°	514.5	524.9	540.0	533.3	522.9
55°	475.7	485.3	497.9	490.7	482.6
57.5°	436.5	446.2	455.9	448.6	441.6
60°	397.0	405.5	413.5	406.0	400.7
62.5°	356.8	364.1	371.0	363.9	358.9
65°	316.2	322.7	328.3	321.8	316.4
67.5°	275.9	281.3	286.5	279.8	274.2
70°	235.5	240.2	245.0	238.0	232.9
72.5°	195.7	199.8	204.1	197.3	192.8
75°	156.9	160.5	164.0	158.0	154.5
77.5°	119.9	123.0	125.4	121.6	118.2
80°	85.6	87.8	89.3	87.7	84.6
82.5°	55.0	56.6	57.4	57.3	55.2
85°	29.9	30.4	31.9	32.2	31.1
87.5°	11.6	12.3	12.7	13.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)