

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: P488369

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-35-120-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: P488369  
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-LD4-2LO-35-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

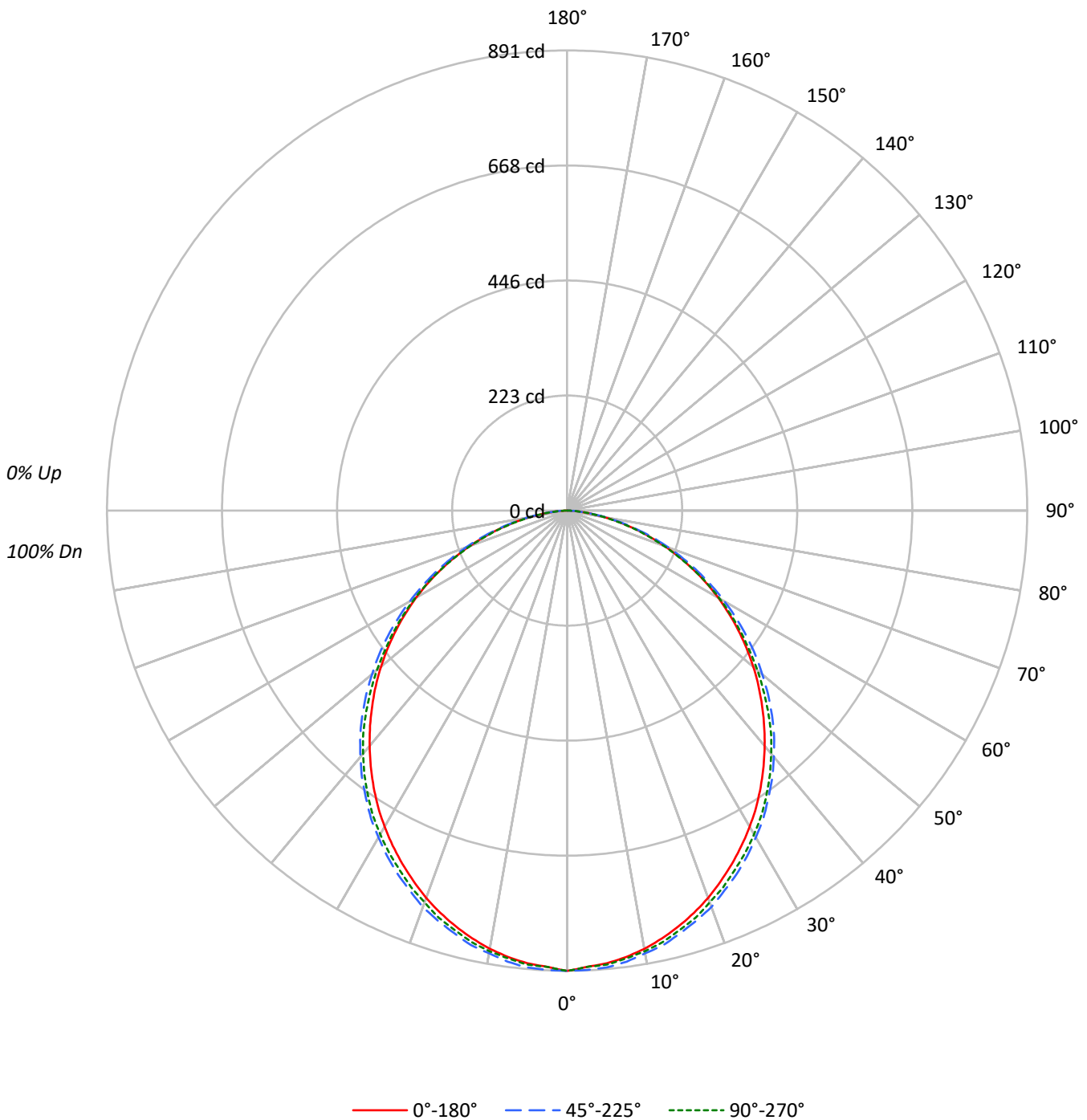
Lumens per Lamp: N/A  
Luminaire Lumens: 2343.3 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	4797	4797	4797
5°	4753	4797	4768
10°	4709	4757	4734
15°	4644	4719	4686
20°	4571	4679	4623
25°	4482	4612	4559
30°	4391	4540	4499
35°	4292	4462	4421
40°	4181	4373	4318
45°	4064	4268	4188
50°	3941	4132	4024
55°	3798	3976	3854
60°	3636	3788	3670
65°	3427	3558	3429
70°	3153	3281	3119
75°	2776	2903	2734
80°	2256	2356	2232
85°	1568	1673	1636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	3.6
10°-20°	237.9	10.2
20°-30°	354.8	15.1
30°-40°	420.4	17.9
40°-50°	425.4	18.2
50°-60°	371.5	15.9
60°-70°	271.5	11.6
70°-80°	144.5	6.2
80°-90°	33.4	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°	676.6	28.9
0°-40°	1097.0	46.8
0°-60°	1894.0	80.8
0°-90°	2343.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2343.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	880	881	888	890	882	83
15°	834	839	847	852	841	235
25°	755	764	777	780	768	348
35°	653	664	679	684	673	409
45°	534	543	561	561	550	412
55°	405	413	424	418	411	362
65°	269	275	279	274	269	266
75°	134	137	140	134	132	142
85°	25	26	27	27	26	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	891.3	891.3	891.3	891.3	891.3
2.5°	884.3	887.2	890.2	891.5	884.3
5°	879.7	881.4	888.0	890.0	882.5
7.5°	872.1	874.6	881.0	881.9	874.7
10°	861.7	866.1	870.4	875.1	866.2
12.5°	848.4	854.4	861.7	862.5	855.8
15°	833.5	839.0	846.9	852.0	841.0
17.5°	816.7	822.1	832.3	833.3	826.6
20°	798.1	804.8	817.0	819.2	807.2
22.5°	776.9	785.9	796.1	798.2	789.3
25°	754.7	764.0	776.6	779.5	767.7
27.5°	731.5	740.4	754.6	756.7	746.7
30°	706.6	715.0	730.6	734.0	723.9
32.5°	681.3	689.7	707.0	709.9	700.0
35°	653.3	663.5	679.2	683.9	672.9
37.5°	624.7	634.6	652.5	656.7	644.8
40°	595.1	604.9	622.5	626.0	614.6
42.5°	564.8	574.6	593.4	594.0	584.5
45°	533.9	543.3	560.8	561.3	550.2
47.5°	502.5	512.1	527.7	525.9	515.5
50°	470.7	479.8	493.5	490.0	480.6
52.5°	437.9	446.7	459.6	453.8	445.0
55°	404.8	413.0	423.7	417.6	410.7
57.5°	371.5	379.7	388.0	381.8	375.8
60°	337.8	345.1	351.9	345.5	341.0
62.5°	303.7	309.9	315.7	309.7	305.4
65°	269.1	274.6	279.4	273.9	269.3
67.5°	234.8	239.4	243.9	238.1	233.4
70°	200.4	204.4	208.5	202.5	198.2
72.5°	166.5	170.0	173.7	167.9	164.1
75°	133.5	136.6	139.6	134.5	131.5
77.5°	102.1	104.7	106.7	103.5	100.6
80°	72.8	74.8	76.0	74.7	72.0
82.5°	46.8	48.2	48.8	48.8	47.0
85°	25.4	25.9	27.1	27.4	26.5
87.5°	9.8	10.5	10.8	11.6	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)