

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: P488365

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-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: P488365  
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-27-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

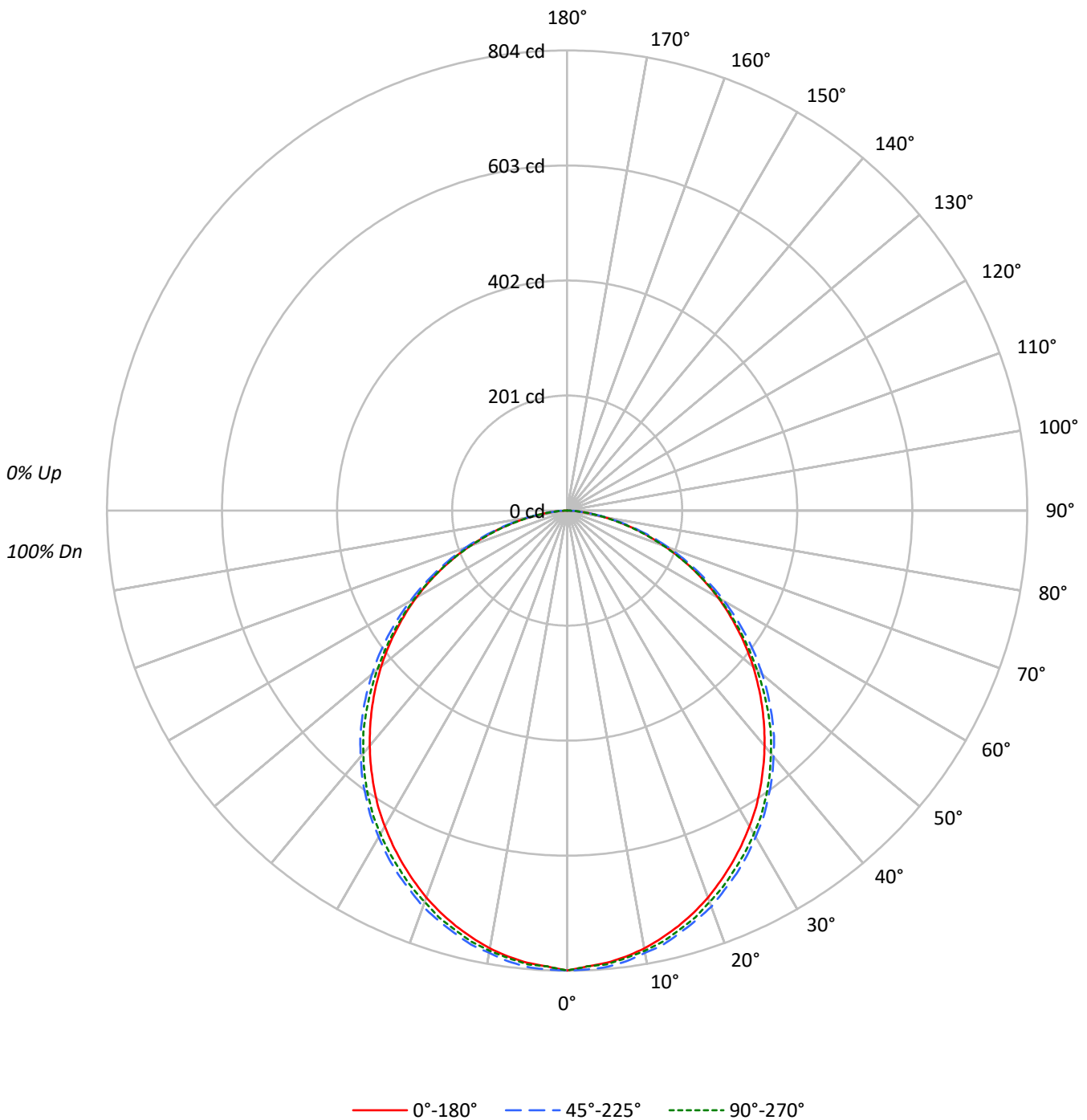
Lumens per Lamp: N/A  
Luminaire Lumens: 2112.5 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	4324	4324	4324
5°	4285	4325	4298
10°	4245	4288	4268
15°	4187	4254	4224
20°	4121	4218	4168
25°	4040	4157	4110
30°	3959	4093	4056
35°	3870	4023	3985
40°	3769	3943	3892
45°	3663	3848	3775
50°	3553	3725	3627
55°	3424	3584	3475
60°	3279	3414	3309
65°	3089	3208	3092
70°	2843	2957	2812
75°	2504	2616	2464
80°	2033	2123	2011
85°	1414	1507	1476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	3.6
10°-20°	214.5	10.2
20°-30°	319.8	15.1
30°-40°	379.0	17.9
40°-50°	383.5	18.2
50°-60°	334.9	15.9
60°-70°	244.8	11.6
70°-80°	130.2	6.2
80°-90°	30.1	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°	610.0	28.9
0°-40°	989.0	46.8
0°-60°	1707.4	80.8
0°-90°	2112.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	793	795	800	802	796	75
15°	751	756	764	768	758	212
25°	680	689	700	703	692	313
35°	589	598	612	617	607	368
45°	481	490	506	506	496	371
55°	365	372	382	376	370	326
65°	243	248	252	247	243	240
75°	120	123	126	121	118	128
85°	23	23	24	25	24	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	803.5	803.5	803.5	803.5	803.5
2.5°	797.2	799.8	802.5	803.7	797.2
5°	793.1	794.6	800.5	802.3	795.6
7.5°	786.2	788.5	794.2	795.1	788.5
10°	776.8	780.8	784.7	788.9	780.9
12.5°	764.8	770.3	776.8	777.6	771.5
15°	751.4	756.4	763.5	768.1	758.1
17.5°	736.3	741.2	750.4	751.2	745.2
20°	719.5	725.5	736.5	738.5	727.7
22.5°	700.4	708.5	717.7	719.6	711.6
25°	680.4	688.7	700.1	702.7	692.1
27.5°	659.4	667.5	680.3	682.1	673.2
30°	637.0	644.5	658.6	661.7	652.6
32.5°	614.2	621.8	637.3	639.9	631.1
35°	589.0	598.2	612.3	616.6	606.6
37.5°	563.2	572.1	588.2	592.0	581.3
40°	536.5	545.3	561.2	564.3	554.0
42.5°	509.2	518.0	535.0	535.5	526.9
45°	481.3	489.8	505.6	506.0	496.0
47.5°	453.0	461.6	475.7	474.1	464.7
50°	424.4	432.6	444.9	441.7	433.2
52.5°	394.7	402.7	414.3	409.1	401.2
55°	364.9	372.3	382.0	376.5	370.3
57.5°	334.9	342.3	349.8	344.2	338.8
60°	304.6	311.1	317.2	311.5	307.4
62.5°	273.8	279.4	284.6	279.2	275.3
65°	242.6	247.6	251.9	246.9	242.8
67.5°	211.6	215.8	219.8	214.7	210.4
70°	180.7	184.3	187.9	182.6	178.7
72.5°	150.1	153.3	156.6	151.4	147.9
75°	120.4	123.1	125.8	121.2	118.5
77.5°	92.0	94.3	96.2	93.3	90.7
80°	65.6	67.4	68.5	67.3	64.9
82.5°	42.2	43.4	44.0	44.0	42.4
85°	22.9	23.4	24.4	24.7	23.9
87.5°	8.9	9.5	9.7	10.5	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)