

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: P488362

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-20-120-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: P488362  
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-20-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

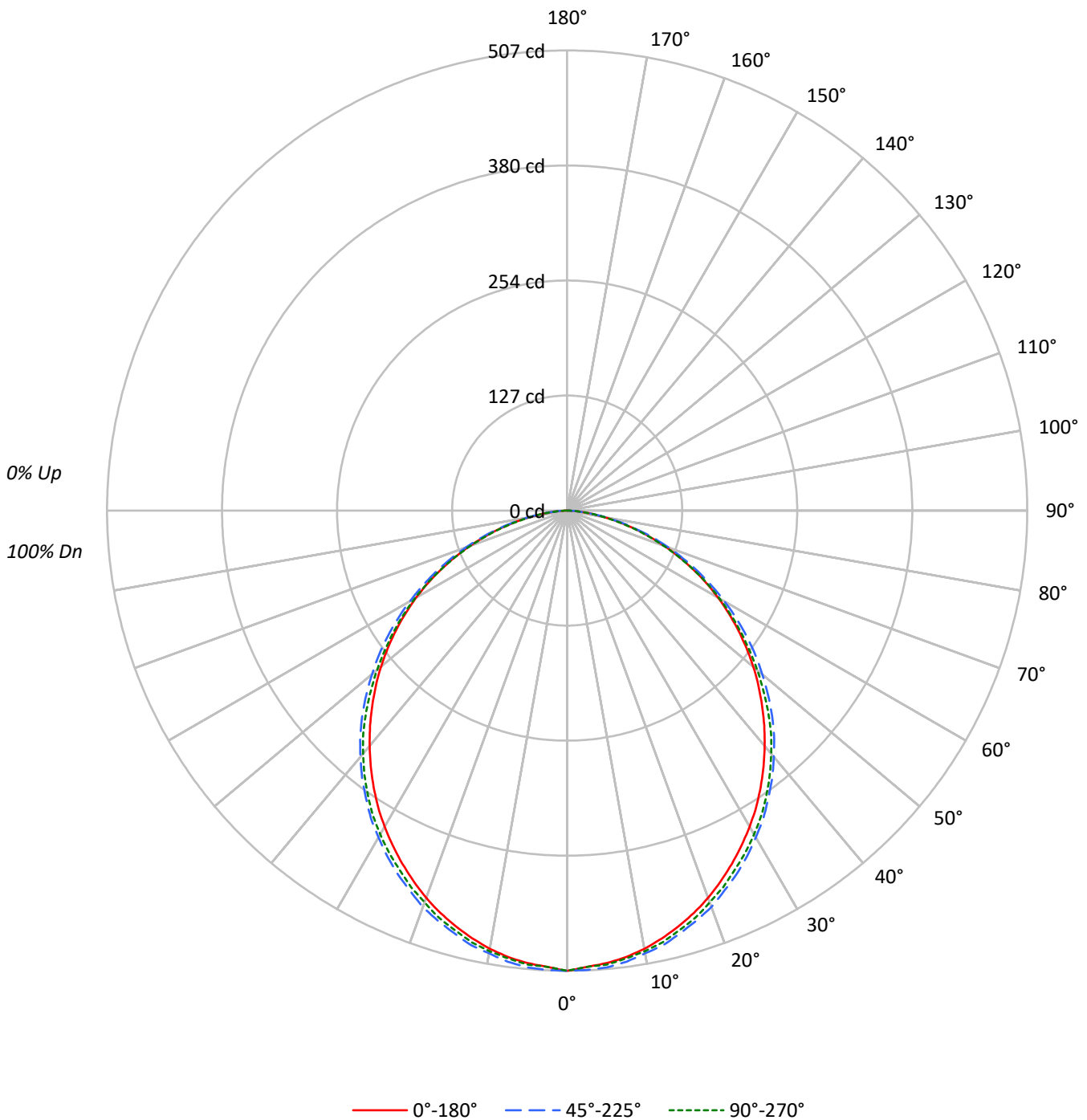
Lumens per Lamp: N/A  
Luminaire Lumens: 1333.3 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	2729	2729	2729
5°	2704	2729	2713
10°	2679	2707	2694
15°	2642	2685	2666
20°	2601	2663	2631
25°	2550	2624	2594
30°	2498	2583	2560
35°	2442	2539	2516
40°	2379	2488	2457
45°	2312	2429	2383
50°	2242	2351	2289
55°	2161	2262	2193
60°	2069	2155	2088
65°	1950	2025	1951
70°	1794	1866	1775
75°	1580	1651	1555
80°	1283	1339	1268
85°	895	951	932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.8	3.6
10°-20°	135.4	10.2
20°-30°	201.9	15.1
30°-40°	239.2	17.9
40°-50°	242.1	18.2
50°-60°	211.4	15.9
60°-70°	154.5	11.6
70°-80°	82.2	6.2
80°-90°	19.0	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°	385.0	28.9
0°-40°	624.2	46.8
0°-60°	1077.6	80.8
0°-90°	1333.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	500	502	505	506	502	47
15°	474	477	482	485	478	134
25°	429	435	442	444	437	198
35°	372	378	386	389	383	232
45°	304	309	319	319	313	234
55°	230	235	241	238	234	206
65°	153	156	159	156	153	152
75°	76	78	79	76	75	81
85°	14	15	15	16	15	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	507.1	507.1	507.1	507.1	507.1
2.5°	503.2	504.8	506.5	507.2	503.1
5°	500.5	501.5	505.2	506.4	502.1
7.5°	496.2	497.6	501.3	501.8	497.7
10°	490.3	492.8	495.3	497.9	492.9
12.5°	482.7	486.2	490.3	490.8	487.0
15°	474.2	477.4	481.9	484.8	478.5
17.5°	464.7	467.8	473.6	474.1	470.3
20°	454.1	457.9	464.9	466.1	459.3
22.5°	442.0	447.2	453.0	454.1	449.1
25°	429.4	434.7	441.9	443.5	436.8
27.5°	416.2	421.3	429.4	430.5	424.9
30°	402.0	406.8	415.7	417.6	411.9
32.5°	387.7	392.4	402.3	403.9	398.3
35°	371.7	377.5	386.5	389.2	382.9
37.5°	355.4	361.1	371.2	373.7	366.9
40°	338.6	344.2	354.2	356.2	349.7
42.5°	321.4	327.0	337.6	338.0	332.6
45°	303.8	309.2	319.1	319.4	313.1
47.5°	285.9	291.3	300.2	299.2	293.3
50°	267.8	273.0	280.8	278.8	273.4
52.5°	249.1	254.2	261.5	258.2	253.2
55°	230.3	235.0	241.1	237.6	233.7
57.5°	211.4	216.1	220.8	217.2	213.8
60°	192.2	196.3	200.2	196.6	194.0
62.5°	172.8	176.3	179.6	176.2	173.8
65°	153.1	156.2	159.0	155.8	153.2
67.5°	133.6	136.2	138.8	135.5	132.8
70°	114.0	116.3	118.6	115.2	112.8
72.5°	94.7	96.7	98.8	95.5	93.4
75°	76.0	77.7	79.4	76.5	74.8
77.5°	58.1	59.5	60.7	58.9	57.2
80°	41.4	42.5	43.2	42.5	40.9
82.5°	26.6	27.4	27.8	27.7	26.7
85°	14.5	14.7	15.4	15.6	15.1
87.5°	5.6	6.0	6.1	6.6	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)