

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: P488530

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-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: P488530  
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-12-4-INS-A12125-LD4-1HI-20-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

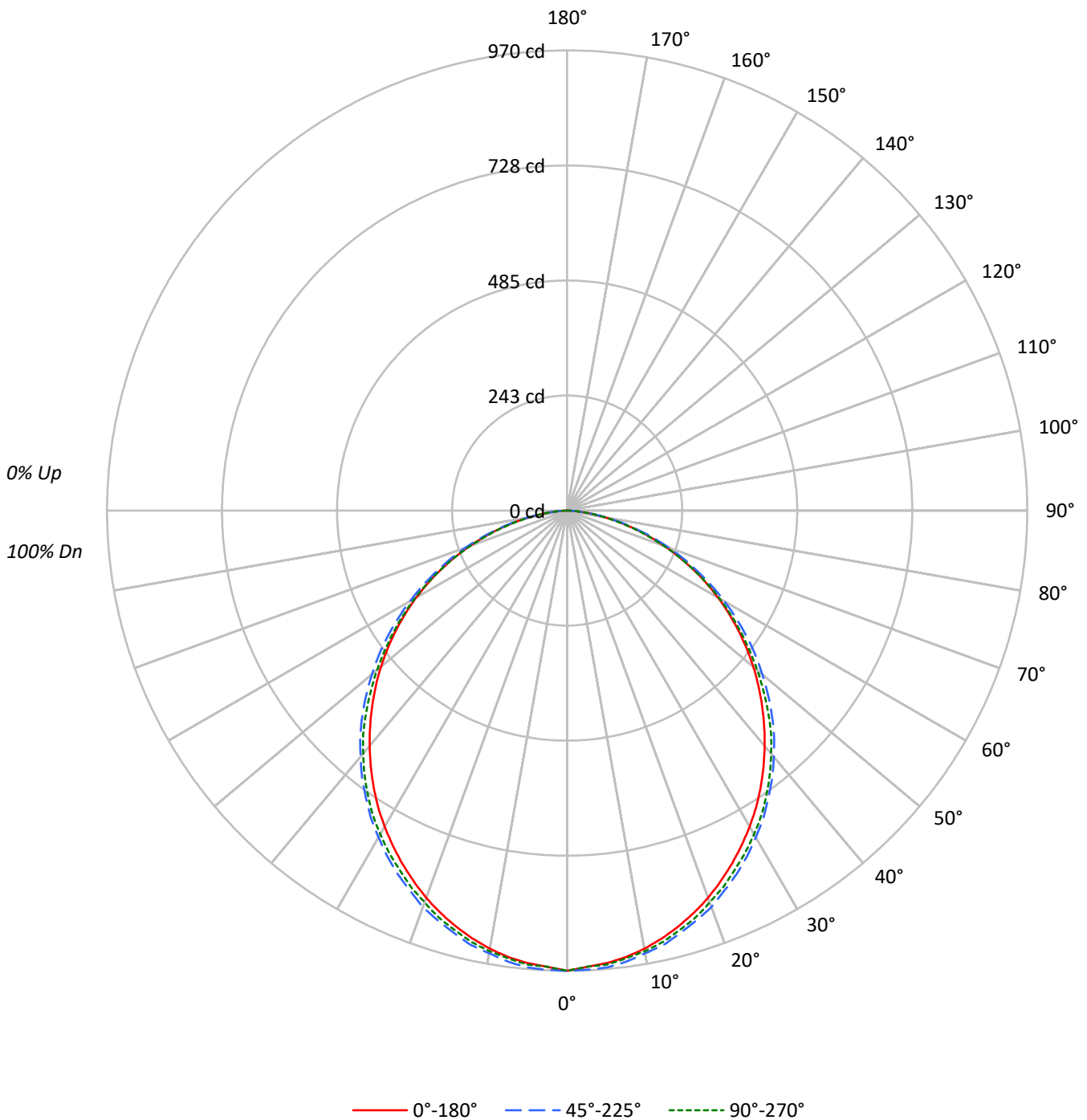
Lumens per Lamp: N/A  
Luminaire Lumens: 2550.6 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	2611	2611	2611
5°	2586	2611	2595
10°	2563	2589	2576
15°	2527	2568	2550
20°	2488	2547	2516
25°	2439	2510	2481
30°	2390	2471	2448
35°	2336	2429	2406
40°	2275	2380	2350
45°	2211	2323	2279
50°	2145	2249	2190
55°	2067	2164	2098
60°	1979	2061	1998
65°	1865	1936	1866
70°	1716	1785	1697
75°	1512	1579	1488
80°	1227	1282	1213
85°	855	911	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	3.6
10°-20°	258.9	10.2
20°-30°	386.2	15.1
30°-40°	457.6	17.9
40°-50°	463.0	18.2
50°-60°	404.4	15.9
60°-70°	295.5	11.6
70°-80°	157.2	6.2
80°-90°	36.3	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°	736.5	28.9
0°-40°	1194.1	46.8
0°-60°	2061.5	80.8
0°-90°	2550.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	958	959	966	969	961	91
15°	907	913	922	927	915	256
25°	822	832	845	848	836	378
35°	711	722	739	744	732	445
45°	581	591	610	611	599	448
55°	441	450	461	455	447	394
65°	293	299	304	298	293	290
75°	145	149	152	146	143	155
85°	28	28	30	30	29	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.2	970.2	970.2	970.2	970.2
2.5°	962.6	965.7	968.9	970.4	962.5
5°	957.5	959.3	966.5	968.7	960.6
7.5°	949.2	952.0	958.9	959.9	952.1
10°	937.9	942.8	947.4	952.5	942.9
12.5°	923.5	930.0	937.9	938.8	931.5
15°	907.2	913.2	921.8	927.4	915.4
17.5°	889.0	894.9	906.0	907.0	899.7
20°	868.7	876.0	889.3	891.6	878.6
22.5°	845.6	855.4	866.6	868.8	859.2
25°	821.5	831.6	845.3	848.5	835.6
27.5°	796.2	805.9	821.4	823.6	812.8
30°	769.1	778.2	795.2	798.9	787.9
32.5°	741.6	750.7	769.5	772.6	761.9
35°	711.1	722.2	739.3	744.4	732.4
37.5°	680.0	690.8	710.2	714.8	701.9
40°	647.7	658.4	677.5	681.4	668.9
42.5°	614.8	625.5	645.9	646.5	636.2
45°	581.1	591.4	610.4	610.9	598.9
47.5°	546.9	557.4	574.3	572.4	561.1
50°	512.4	522.3	537.1	533.3	523.1
52.5°	476.6	486.2	500.2	494.0	484.4
55°	440.6	449.5	461.2	454.6	447.1
57.5°	404.3	413.3	422.3	415.5	409.1
60°	367.7	375.6	383.0	376.1	371.2
62.5°	330.5	337.3	343.7	337.1	332.4
65°	292.9	298.9	304.1	298.1	293.1
67.5°	255.5	260.6	265.4	259.2	254.0
70°	218.1	222.5	226.9	220.5	215.7
72.5°	181.2	185.1	189.0	182.8	178.6
75°	145.4	148.7	151.9	146.4	143.1
77.5°	111.1	113.9	116.1	112.6	109.5
80°	79.2	81.4	82.7	81.3	78.3
82.5°	50.9	52.5	53.2	53.1	51.1
85°	27.7	28.2	29.5	29.8	28.8
87.5°	10.7	11.4	11.7	12.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)