

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: P488635

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-40-120-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: P488635  
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-LD4-3STD-40-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

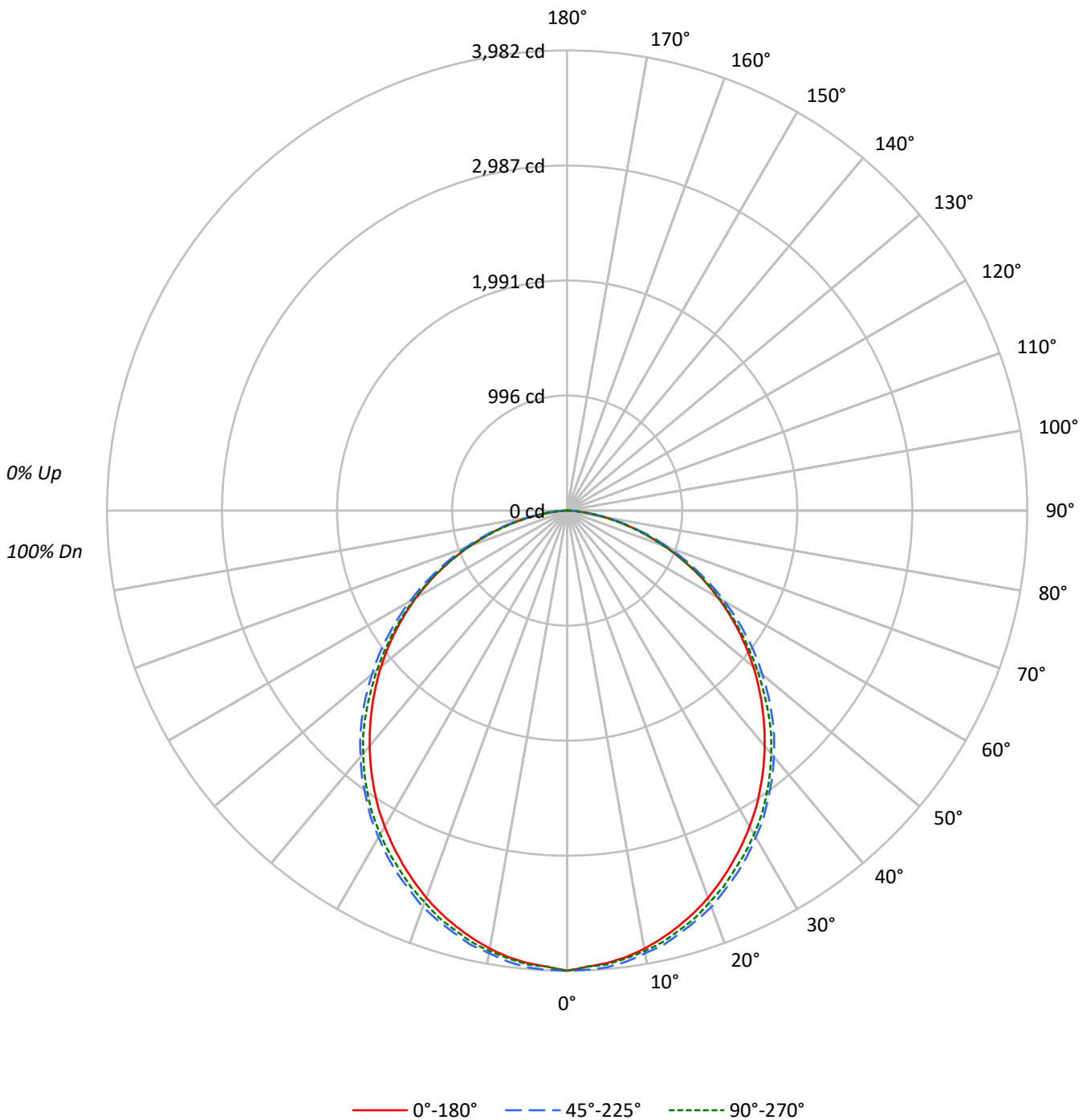
Lumens per Lamp: N/A  
Luminaire Lumens: 10469.8 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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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CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3STD-40-120-EDD

### 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	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°	10716	10716	10716
5°	10617	10717	10651
10°	10520	10627	10576
15°	10374	10542	10468
20°	10211	10454	10328
25°	10012	10303	10185
30°	9810	10142	10050
35°	9589	9969	9877
40°	9340	9770	9646
45°	9078	9536	9356
50°	8805	9231	8989
55°	8485	8883	8610
60°	8124	8461	8200
65°	7656	7950	7661
70°	7045	7329	6966
75°	6203	6484	6108
80°	5041	5260	4984
85°	3511	3742	3653



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.1	3.6
10°-20°	1062.8	10.2
20°-30°	1585.2	15.1
30°-40°	1878.4	17.9
40°-50°	1900.7	18.2
50°-60°	1660.0	15.9
60°-70°	1213.0	11.6
70°-80°	645.4	6.2
80°-90°	149.2	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
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0°-30°	3023.1	28.9
0°-40°	4901.5	46.8
0°-60°	8462.2	80.8
0°-90°	10469.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10469.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3982	3982	3982	3982	3982	
5°	3930	3938	3967	3976	3943	373
15°	3724	3749	3784	3807	3758	1050
25°	3372	3414	3470	3483	3430	1554
35°	2919	2965	3035	3056	3006	1825
45°	2385	2428	2506	2508	2458	1840
55°	1809	1845	1893	1866	1835	1617
65°	1202	1227	1248	1224	1203	1190
75°	597	610	624	601	588	634
85°	114	116	121	122	118	144
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3982.3	3982.3	3982.3	3982.3	3982.3
2.5°	3951.2	3964.1	3977.4	3983.2	3950.8
5°	3930.5	3937.9	3967.4	3976.5	3942.9
7.5°	3896.5	3907.7	3936.3	3940.4	3908.1
10°	3850.0	3869.9	3889.0	3909.7	3870.3
12.5°	3790.6	3817.6	3850.0	3853.7	3823.8
15°	3723.8	3748.7	3784.0	3806.8	3757.5
17.5°	3649.2	3673.2	3718.9	3723.0	3693.1
20°	3565.8	3595.6	3650.4	3660.0	3606.4
22.5°	3471.2	3511.4	3557.1	3566.2	3526.8
25°	3372.0	3413.5	3469.9	3482.8	3430.1
27.5°	3268.3	3308.1	3371.6	3380.7	3336.3
30°	3157.1	3194.4	3264.1	3279.5	3234.3
32.5°	3044.2	3081.6	3158.7	3171.6	3127.6
35°	2918.9	2964.6	3034.7	3055.8	3006.5
37.5°	2791.1	2835.5	2915.2	2934.3	2881.2
40°	2658.8	2702.7	2781.2	2796.9	2745.9
42.5°	2523.5	2567.5	2651.3	2653.8	2611.5
45°	2385.3	2427.7	2505.7	2507.7	2458.4
47.5°	2245.1	2287.8	2357.5	2349.7	2303.2
50°	2103.2	2143.9	2204.9	2189.1	2147.2
52.5°	1956.3	1995.7	2053.4	2027.7	1988.3
55°	1808.6	1845.1	1893.3	1865.9	1835.2
57.5°	1659.7	1696.6	1733.5	1705.7	1679.2
60°	1509.5	1541.8	1572.1	1543.9	1523.6
62.5°	1356.8	1384.6	1410.7	1383.7	1364.7
65°	1202.4	1226.9	1248.5	1223.6	1203.2
67.5°	1048.9	1069.6	1089.6	1063.8	1042.7
70°	895.4	913.2	931.5	904.9	885.4
72.5°	743.9	759.7	775.9	750.2	733.2
75°	596.6	610.3	623.6	600.8	587.5
77.5°	456.0	467.6	476.7	462.2	449.4
80°	325.3	334.0	339.4	333.6	321.6
82.5°	209.1	215.3	218.2	217.8	209.9
85°	113.7	115.8	121.2	122.4	118.3
87.5°	44.0	46.9	48.1	51.9	47.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)