

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: P488608

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-35-120-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: P488608  
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-LD4-3HI-35-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

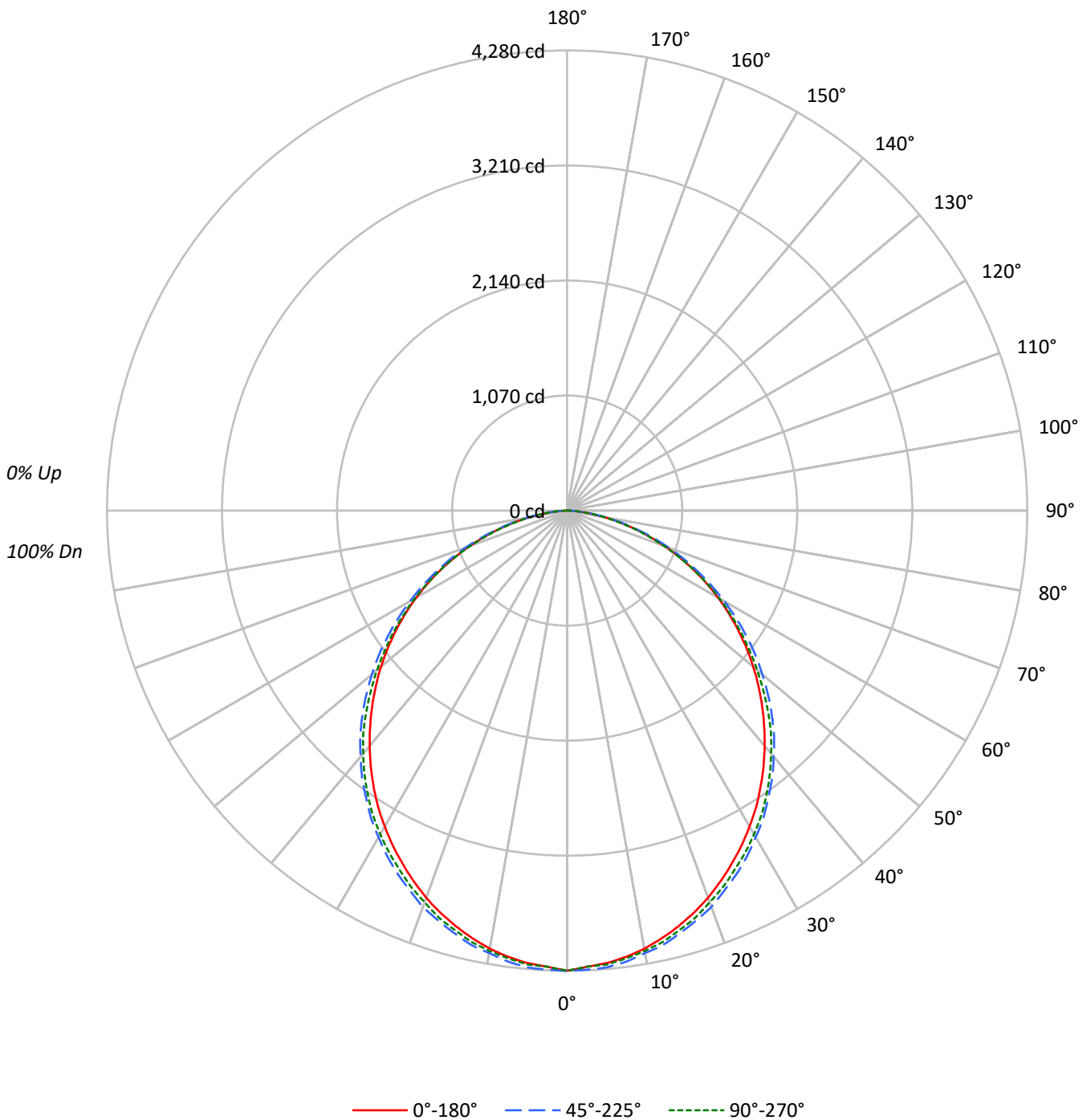
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11252.6 lumens  
Efficiency: N/A  
Efficacy: 86.8 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): 129.6  
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

TEST NUMBER: P488608

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488608

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD-90

**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°	11518	11518	11518
5°	11411	11518	11447
10°	11307	11421	11366
15°	11150	11330	11251
20°	10975	11235	11100
25°	10761	11073	10946
30°	10543	10901	10801
35°	10306	10715	10615
40°	10038	10500	10367
45°	9756	10249	10055
50°	9463	9921	9661
55°	9119	9546	9254
60°	8731	9093	8813
65°	8229	8544	8234
70°	7571	7877	7487
75°	6668	6968	6565
80°	5418	5653	5356
85°	3773	4020	3924



TEST NUMBER: P488608

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.1	3.6
10°-20°	1142.3	10.2
20°-30°	1703.7	15.1
30°-40°	2018.9	17.9
40°-50°	2042.8	18.2
50°-60°	1784.1	15.9
60°-70°	1303.7	11.6
70°-80°	693.7	6.2
80°-90°	160.3	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°	3249.1	28.9
0°-40°	5268.0	46.8
0°-60°	9094.8	80.8
0°-90°	11252.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11252.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4280	4280	4280	4280	4280	
5°	4224	4232	4264	4274	4238	401
15°	4002	4029	4067	4092	4038	1128
25°	3624	3669	3729	3743	3686	1670
35°	3137	3186	3262	3284	3231	1962
45°	2564	2609	2693	2695	2642	1978
55°	1944	1983	2035	2005	1972	1738
65°	1292	1319	1342	1315	1293	1279
75°	641	656	670	646	631	682
85°	122	124	130	132	127	155
90°	0	0	0	0	0	



TEST NUMBER: P488608

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4280.1	4280.1	4280.1	4280.1	4280.1
2.5°	4246.6	4260.5	4274.7	4281.0	4246.2
5°	4224.3	4232.4	4264.0	4273.8	4237.7
7.5°	4187.8	4199.8	4230.6	4235.0	4200.3
10°	4137.8	4159.2	4179.8	4202.0	4159.7
12.5°	4074.1	4103.1	4137.8	4141.8	4109.7
15°	4002.3	4029.0	4066.9	4091.5	4038.4
17.5°	3922.0	3947.9	3996.9	4001.4	3969.3
20°	3832.4	3864.5	3923.3	3933.6	3876.1
22.5°	3730.7	3774.0	3823.0	3832.8	3790.5
25°	3624.1	3668.7	3729.4	3743.2	3686.5
27.5°	3512.6	3555.4	3623.7	3633.5	3585.8
30°	3393.1	3433.3	3508.2	3524.7	3476.1
32.5°	3271.8	3312.0	3394.9	3408.7	3361.5
35°	3137.2	3186.2	3261.6	3284.3	3231.2
37.5°	2999.8	3047.5	3133.1	3153.7	3096.6
40°	2857.6	2904.8	2989.1	3006.1	2951.2
42.5°	2712.2	2759.4	2849.5	2852.2	2806.7
45°	2563.7	2609.2	2693.0	2695.2	2642.2
47.5°	2413.0	2458.9	2533.8	2525.3	2475.4
50°	2260.4	2304.1	2369.7	2352.8	2307.7
52.5°	2102.6	2144.9	2206.9	2179.3	2136.9
55°	1943.8	1983.1	2034.8	2005.4	1972.4
57.5°	1783.7	1823.4	1863.1	1833.2	1804.7
60°	1622.3	1657.1	1689.6	1659.3	1637.5
62.5°	1458.2	1488.1	1516.2	1487.2	1466.7
65°	1292.3	1318.6	1341.8	1315.1	1293.2
67.5°	1127.3	1149.6	1171.0	1143.4	1120.6
70°	962.3	981.5	1001.1	972.6	951.6
72.5°	799.6	816.5	833.9	806.3	788.0
75°	641.3	656.0	670.2	645.7	631.4
77.5°	490.1	502.6	512.4	496.8	482.9
80°	349.6	359.0	364.8	358.5	345.6
82.5°	224.8	231.4	234.6	234.1	225.6
85°	122.2	124.4	130.2	131.6	127.1
87.5°	47.3	50.4	51.7	55.7	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)