

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: P488823

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-30-120-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: P488823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-3HI-30-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

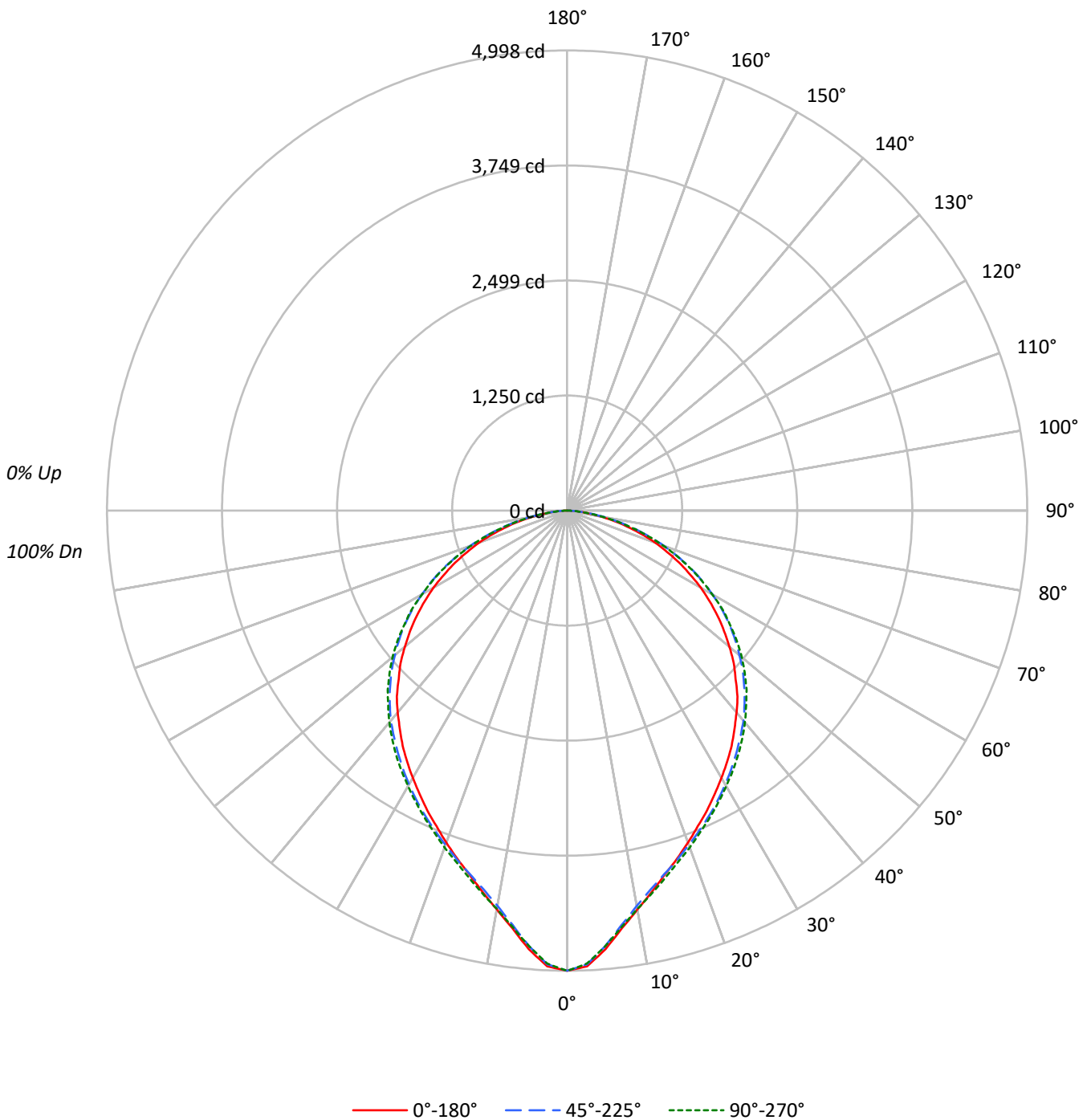
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11609.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
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: P488823

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-30-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P488823

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-30-120-EDD

**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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13449	13449	13449
5°	12914	12822	12822
10°	12019	11909	12001
15°	11404	11384	11495
20°	10986	11065	11151
25°	10672	10846	10909
30°	10415	10671	10737
35°	10236	10535	10642
40°	10055	10463	10550
45°	9847	10360	10484
50°	9630	10232	10368
55°	9363	10083	10124
60°	9026	9806	9786
65°	8556	9431	9367
70°	7988	8794	8686
75°	7050	7791	7713
80°	5728	6349	6038
85°	3974	4048	3893



TEST NUMBER: P488823

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-30-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.6	3.8
10°-20°	1156.8	10.0
20°-30°	1682.2	14.5
30°-40°	2001.7	17.2
40°-50°	2078.5	17.9
50°-60°	1883.0	16.2
60°-70°	1420.9	12.2
70°-80°	774.2	6.7
80°-90°	170.1	1.5
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°	3280.6	28.3
0°-40°	5282.3	45.5
0°-60°	9243.8	79.6
0°-90°	11609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4998	4998	4998	4998	4998	
5°	4781	4769	4747	4744	4747	444
15°	4094	4084	4086	4114	4126	1155
25°	3594	3624	3653	3683	3674	1656
35°	3116	3153	3207	3256	3240	1948
45°	2588	2634	2722	2752	2755	2000
55°	1996	2043	2149	2164	2158	1782
65°	1344	1382	1481	1479	1471	1328
75°	678	706	749	754	742	722
85°	129	130	131	130	126	162
90°	0	0	0	0	0	



TEST NUMBER: P488823

CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3HI-30-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4997.9	4997.9	4997.9	4997.9	4997.9
2.5°	4954.1	4949.1	4932.9	4926.6	4925.4
5°	4780.6	4769.3	4746.8	4744.4	4746.8
7.5°	4573.2	4560.7	4538.3	4547.0	4558.3
10°	4398.4	4367.2	4358.4	4370.9	4392.1
12.5°	4242.3	4217.3	4209.8	4242.3	4257.3
15°	4093.6	4083.7	4086.2	4113.7	4126.1
17.5°	3965.1	3958.8	3975.1	3996.3	4002.6
20°	3836.4	3848.9	3863.9	3886.4	3893.9
22.5°	3710.3	3734.0	3759.0	3789.0	3779.0
25°	3594.2	3624.1	3652.9	3682.8	3674.1
27.5°	3470.5	3505.4	3545.5	3577.9	3565.4
30°	3351.8	3395.6	3434.3	3474.2	3455.5
32.5°	3234.5	3275.7	3321.9	3370.6	3349.4
35°	3115.8	3153.3	3207.0	3255.8	3239.5
37.5°	2984.7	3030.9	3092.1	3134.5	3123.4
40°	2862.3	2904.8	2978.5	3006.0	3003.4
42.5°	2738.7	2773.7	2851.1	2882.3	2877.3
45°	2587.6	2633.8	2722.4	2752.5	2754.9
47.5°	2454.0	2492.7	2587.6	2611.3	2616.3
50°	2300.4	2349.1	2444.0	2472.7	2476.5
52.5°	2149.2	2201.6	2299.1	2319.1	2322.9
55°	1995.6	2043.0	2149.2	2164.3	2158.0
57.5°	1834.6	1892.0	1989.4	1996.9	2003.1
60°	1677.1	1727.1	1822.0	1832.0	1818.3
62.5°	1506.1	1557.3	1654.7	1657.2	1645.9
65°	1343.7	1382.4	1481.1	1478.6	1471.1
67.5°	1173.9	1221.3	1293.8	1296.3	1290.1
70°	1015.3	1047.7	1117.7	1119.0	1104.0
72.5°	844.2	879.2	935.3	927.9	924.2
75°	678.1	705.6	749.3	754.3	741.8
77.5°	525.8	545.7	578.2	574.5	560.7
80°	369.6	385.9	409.7	404.7	389.6
82.5°	236.0	246.1	261.0	254.8	248.5
85°	128.7	129.8	131.1	129.8	126.1
87.5°	47.5	48.7	48.7	47.5	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)