

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: P489924

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-27-120-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: P489924  
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-24-4-INS-P12125-LD4-5STD-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

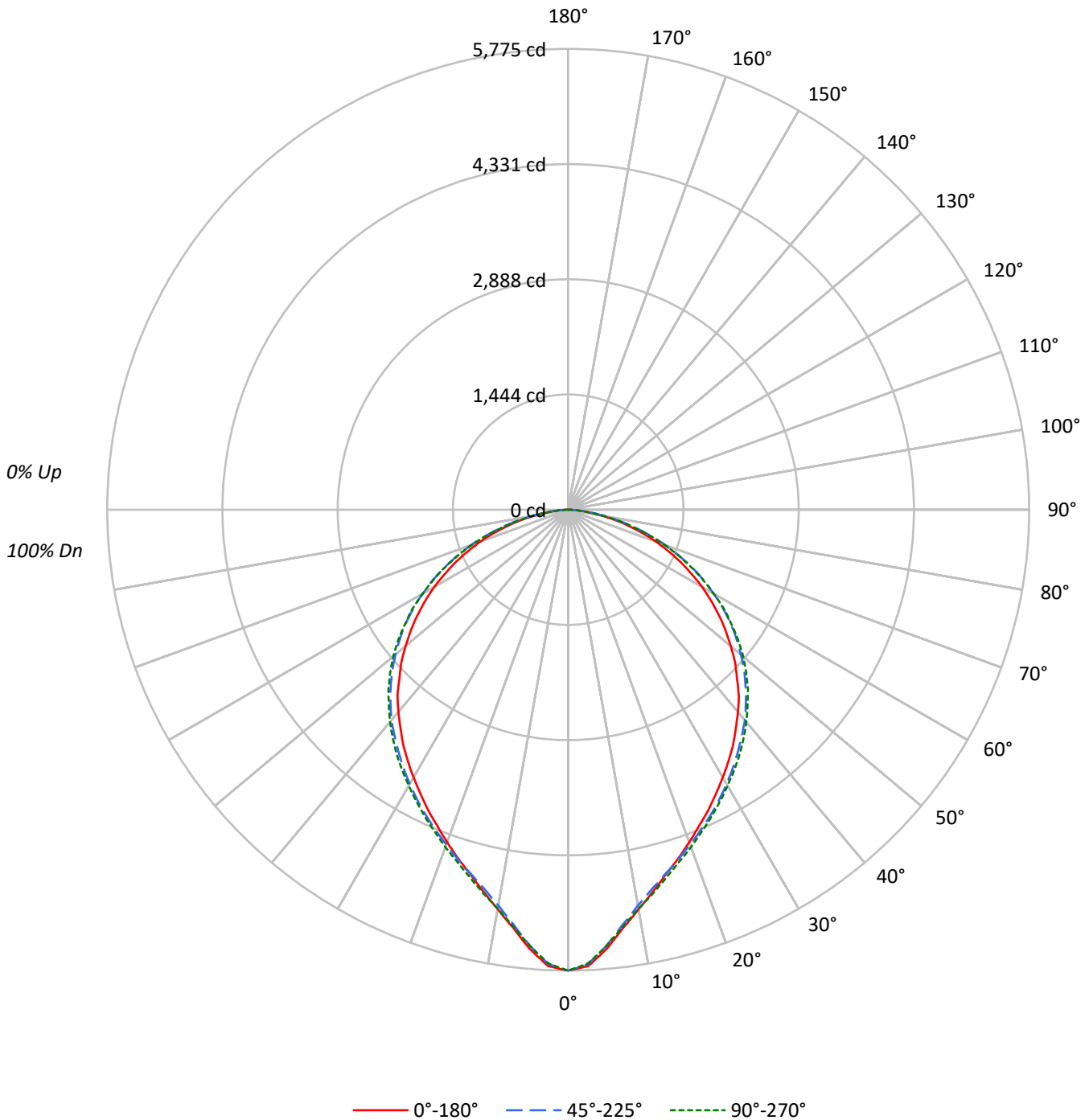
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13415.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 166.5  
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: P489924

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5STD-27-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489924

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5STD-27-120-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	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°	7771	7771	7771
5°	7461	7409	7409
10°	6944	6881	6934
15°	6589	6577	6642
20°	6348	6393	6443
25°	6166	6267	6303
30°	6018	6166	6204
35°	5914	6087	6149
40°	5810	6045	6096
45°	5690	5986	6058
50°	5564	5912	5990
55°	5410	5826	5850
60°	5215	5666	5654
65°	4943	5449	5412
70°	4615	5081	5019
75°	4074	4501	4456
80°	3309	3668	3488
85°	2296	2339	2249



TEST NUMBER: P489924

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5STD-27-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.3	3.8
10°-20°	1336.7	10.0
20°-30°	1943.9	14.5
30°-40°	2313.1	17.2
40°-50°	2401.8	17.9
50°-60°	2175.9	16.2
60°-70°	1642.0	12.2
70°-80°	894.6	6.7
80°-90°	196.6	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°	3790.9	28.3
0°-40°	6104.0	45.5
0°-60°	10681.8	79.6
0°-90°	13415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5775	5775	5775	5775	5775	
5°	5524	5511	5485	5482	5485	513
15°	4730	4719	4722	4754	4768	1335
25°	4153	4188	4221	4256	4246	1914
35°	3601	3644	3706	3762	3744	2251
45°	2990	3044	3146	3181	3184	2311
55°	2306	2361	2484	2501	2494	2059
65°	1553	1598	1712	1709	1700	1535
75°	784	815	866	872	857	835
85°	149	150	152	150	146	188
90°	0	0	0	0	0	



TEST NUMBER: P489924

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5STD-27-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5775.4	5775.4	5775.4	5775.4	5775.4
2.5°	5724.8	5719.1	5700.3	5693.1	5691.6
5°	5524.3	5511.3	5485.3	5482.4	5485.3
7.5°	5284.7	5270.2	5244.3	5254.4	5267.4
10°	5082.7	5046.6	5036.4	5050.9	5075.4
12.5°	4902.2	4873.4	4864.7	4902.2	4919.6
15°	4730.5	4718.9	4721.9	4753.7	4768.0
17.5°	4581.9	4574.7	4593.5	4618.0	4625.2
20°	4433.3	4447.7	4465.0	4491.0	4499.6
22.5°	4287.5	4314.9	4343.8	4378.4	4366.9
25°	4153.3	4187.9	4221.2	4255.7	4245.7
27.5°	4010.4	4050.8	4097.0	4134.6	4120.1
30°	3873.3	3923.8	3968.6	4014.7	3993.1
32.5°	3737.7	3785.3	3838.7	3895.0	3870.4
35°	3600.6	3643.9	3705.9	3762.3	3743.5
37.5°	3449.1	3502.4	3573.1	3622.2	3609.3
40°	3307.6	3356.7	3441.8	3473.6	3470.7
42.5°	3164.7	3205.2	3294.6	3330.7	3324.9
45°	2990.2	3043.5	3146.0	3180.7	3183.5
47.5°	2835.7	2880.5	2990.2	3017.5	3023.3
50°	2658.2	2714.5	2824.2	2857.3	2861.7
52.5°	2483.6	2544.2	2656.8	2679.8	2684.2
55°	2306.1	2360.9	2483.6	2501.0	2493.7
57.5°	2120.0	2186.3	2298.9	2307.5	2314.8
60°	1938.0	1995.8	2105.5	2117.0	2101.2
62.5°	1740.4	1799.6	1912.2	1915.0	1902.0
65°	1552.7	1597.5	1711.5	1708.7	1699.9
67.5°	1356.5	1411.3	1495.1	1497.9	1490.8
70°	1173.2	1210.7	1291.6	1293.1	1275.8
72.5°	975.6	1015.9	1080.8	1072.2	1068.0
75°	783.6	815.4	865.9	871.7	857.2
77.5°	607.6	630.6	668.2	663.9	647.9
80°	427.1	445.9	473.4	467.6	450.2
82.5°	272.7	284.3	301.6	294.4	287.2
85°	148.7	150.0	151.5	150.0	145.7
87.5°	54.8	56.3	56.3	54.8	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)