

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: P489504

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4HI-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: P489504  
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-24-4-INS-A12125-LD4-4HI-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

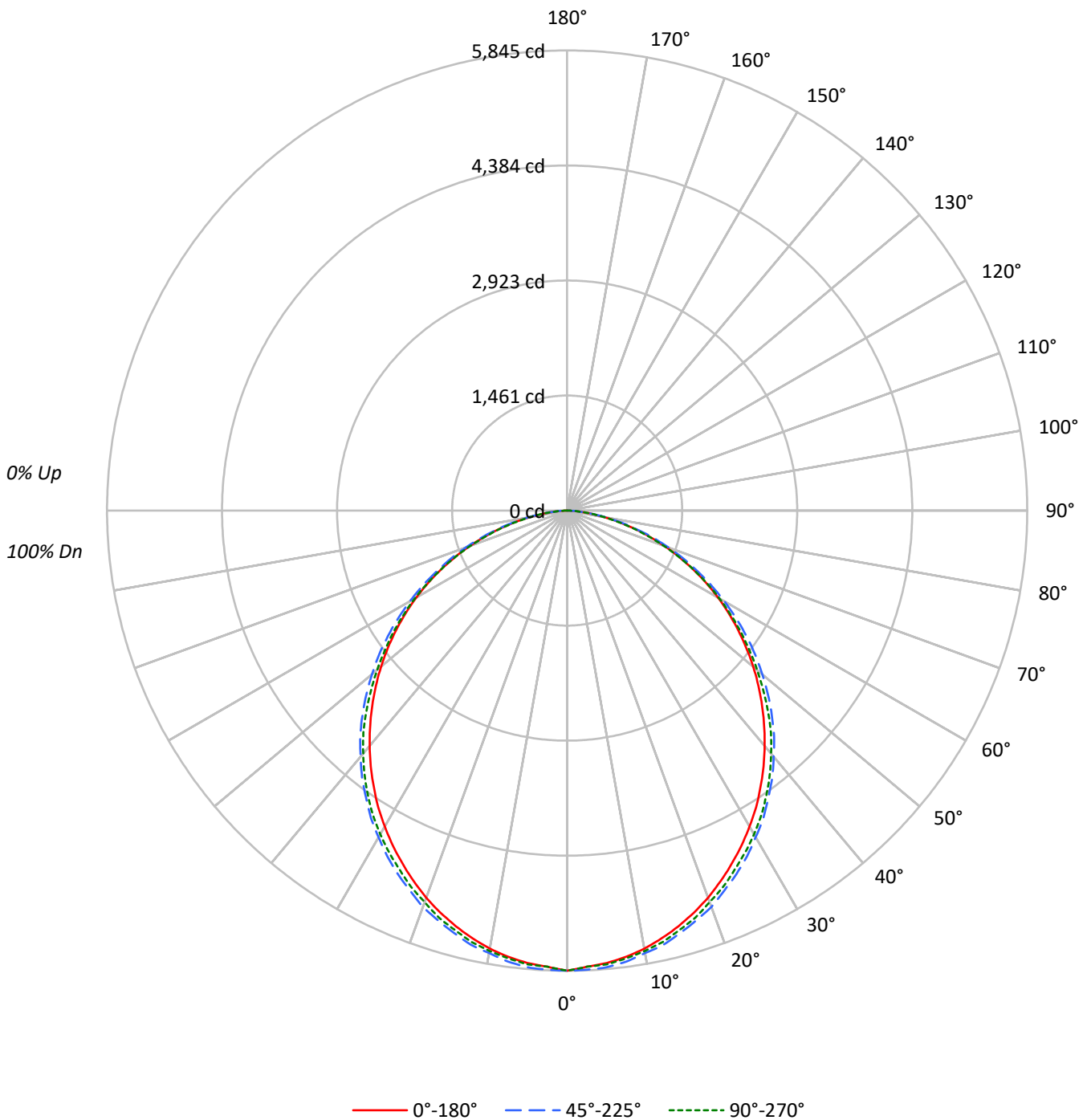
Lumens per Lamp: N/A  
Luminaire Lumens: 15366.3 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 172.8  
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: P489504

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-27-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489504

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-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	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°	7864	7864	7864
5°	7791	7865	7816
10°	7720	7798	7761
15°	7613	7736	7682
20°	7493	7671	7579
25°	7347	7561	7474
30°	7199	7443	7375
35°	7037	7316	7248
40°	6854	7169	7079
45°	6662	6998	6866
50°	6461	6774	6597
55°	6227	6518	6318
60°	5962	6209	6017
65°	5619	5834	5622
70°	5170	5378	5112
75°	4552	4758	4483
80°	3699	3859	3656
85°	2577	2745	2680



TEST NUMBER: P489504

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-27-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.5	3.6
10°-20°	1559.9	10.2
20°-30°	2326.5	15.1
30°-40°	2756.9	17.9
40°-50°	2789.6	18.2
50°-60°	2436.3	15.9
60°-70°	1780.3	11.6
70°-80°	947.3	6.2
80°-90°	218.9	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°	4436.9	28.9
0°-40°	7193.8	46.8
0°-60°	12419.7	80.8
0°-90°	15366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15366.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5845	5845	5845	5845	5845	
5°	5769	5780	5823	5836	5787	547
15°	5465	5502	5554	5587	5515	1541
25°	4949	5010	5093	5112	5034	2280
35°	4284	4351	4454	4485	4412	2679
45°	3501	3563	3678	3681	3608	2701
55°	2654	2708	2779	2738	2693	2373
65°	1765	1801	1832	1796	1766	1746
75°	876	896	915	882	862	931
85°	167	170	178	180	174	211
90°	0	0	0	0	0	



TEST NUMBER: P489504

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4HI-27-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5844.8	5844.8	5844.8	5844.8	5844.8
2.5°	5799.1	5818.0	5837.5	5846.0	5798.5
5°	5768.7	5779.6	5822.9	5836.3	5786.9
7.5°	5718.7	5735.2	5777.2	5783.3	5735.8
10°	5650.5	5679.8	5707.8	5738.2	5680.4
12.5°	5563.5	5603.0	5650.5	5656.0	5612.2
15°	5465.4	5501.9	5553.7	5587.2	5514.7
17.5°	5355.8	5391.1	5458.1	5464.2	5420.3
20°	5233.4	5277.2	5357.6	5371.6	5293.1
22.5°	5094.6	5153.6	5220.6	5234.0	5176.2
25°	4949.0	5009.9	5092.7	5111.6	5034.3
27.5°	4796.8	4855.2	4948.4	4961.8	4896.6
30°	4633.6	4688.4	4790.7	4813.2	4746.8
32.5°	4467.9	4522.7	4636.0	4654.9	4590.3
35°	4284.0	4351.0	4453.9	4485.0	4412.5
37.5°	4096.5	4161.6	4278.5	4306.6	4228.6
40°	3902.2	3966.8	4081.9	4105.0	4030.1
42.5°	3703.7	3768.2	3891.3	3894.9	3832.8
45°	3500.9	3563.0	3677.5	3680.6	3608.1
47.5°	3295.1	3357.8	3460.1	3448.5	3380.3
50°	3086.8	3146.5	3236.0	3212.9	3151.4
52.5°	2871.2	2929.1	3013.7	2976.0	2918.1
55°	2654.5	2708.0	2778.7	2738.5	2693.4
57.5°	2435.8	2490.0	2544.2	2503.4	2464.5
60°	2215.4	2262.9	2307.3	2265.9	2236.1
62.5°	1991.3	2032.1	2070.5	2030.9	2002.9
65°	1764.8	1800.7	1832.4	1795.8	1766.0
67.5°	1539.4	1569.9	1599.1	1561.4	1530.3
70°	1314.1	1340.3	1367.1	1328.1	1299.5
72.5°	1091.9	1115.0	1138.8	1101.0	1076.0
75°	875.7	895.8	915.3	881.8	862.3
77.5°	669.2	686.3	699.7	678.4	659.5
80°	477.4	490.2	498.1	489.6	471.9
82.5°	306.9	316.1	320.3	319.7	308.1
85°	166.9	169.9	177.8	179.6	173.6
87.5°	64.5	68.8	70.6	76.1	70.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)