

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: P489518

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-30-120-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: P489518  
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-LD4-4LO-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

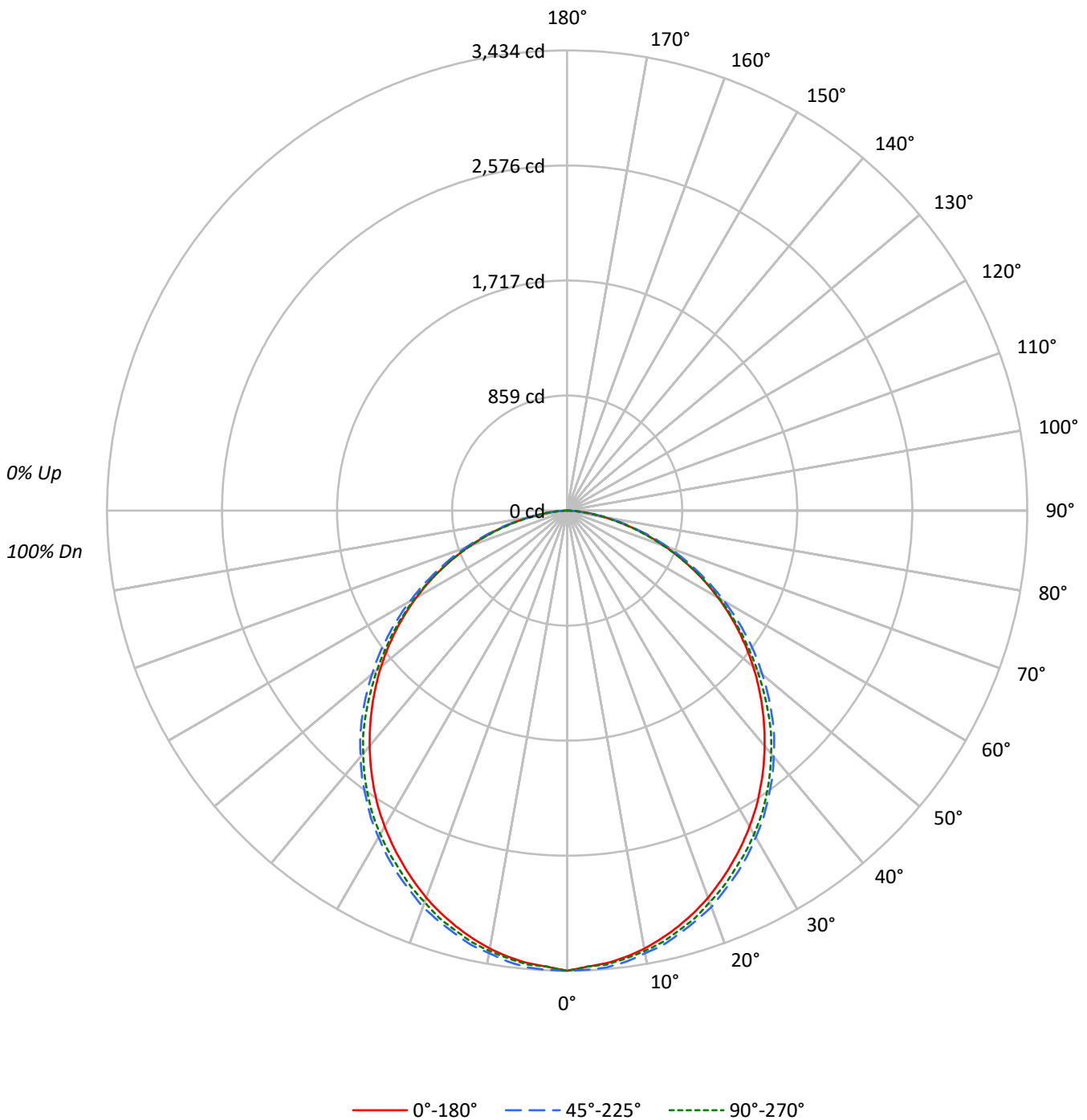
Lumens per Lamp: N/A  
Luminaire Lumens: 9028.6 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 93.6  
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: P489518

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-30-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489518

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-30-120-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°	4621	4621	4621
5°	4578	4621	4592
10°	4536	4582	4560
15°	4473	4545	4513
20°	4403	4507	4453
25°	4317	4442	4391
30°	4230	4373	4333
35°	4134	4298	4258
40°	4027	4212	4159
45°	3914	4112	4034
50°	3796	3980	3876
55°	3658	3830	3712
60°	3503	3648	3535
65°	3301	3428	3303
70°	3037	3160	3004
75°	2675	2796	2634
80°	2173	2268	2149
85°	1513	1613	1575



TEST NUMBER: P489518

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-30-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.4	3.6
10°-20°	916.5	10.2
20°-30°	1367.0	15.1
30°-40°	1619.9	17.9
40°-50°	1639.1	18.2
50°-60°	1431.5	15.9
60°-70°	1046.1	11.6
70°-80°	556.6	6.2
80°-90°	128.6	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°	2606.9	28.9
0°-40°	4226.8	46.8
0°-60°	7297.3	80.8
0°-90°	9028.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9028.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3434	3434	3434	3434	3434	
5°	3389	3396	3421	3429	3400	321
15°	3211	3233	3263	3283	3240	905
25°	2908	2944	2992	3003	2958	1340
35°	2517	2556	2617	2635	2593	1574
45°	2057	2094	2161	2162	2120	1587
55°	1560	1591	1633	1609	1582	1394
65°	1037	1058	1077	1055	1038	1026
75°	514	526	538	518	507	547
85°	98	100	104	106	102	124
90°	0	0	0	0	0	



TEST NUMBER: P489518

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-30-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3434.2	3434.2	3434.2	3434.2	3434.2
2.5°	3407.3	3418.4	3429.9	3434.9	3407.0
5°	3389.4	3395.9	3421.3	3429.1	3400.2
7.5°	3360.1	3369.8	3394.4	3398.0	3370.1
10°	3320.0	3337.2	3353.7	3371.5	3337.6
12.5°	3268.9	3292.1	3320.0	3323.2	3297.5
15°	3211.2	3232.7	3263.1	3282.8	3240.2
17.5°	3146.8	3167.6	3207.0	3210.5	3184.8
20°	3074.9	3100.7	3147.9	3156.1	3110.0
22.5°	2993.3	3028.1	3067.4	3075.3	3041.3
25°	2907.8	2943.6	2992.3	3003.4	2957.9
27.5°	2818.4	2852.7	2907.5	2915.3	2877.1
30°	2722.5	2754.7	2814.8	2828.0	2789.0
32.5°	2625.2	2657.4	2723.9	2735.0	2697.1
35°	2517.1	2556.5	2616.9	2635.2	2592.6
37.5°	2406.9	2445.2	2513.9	2530.4	2484.6
40°	2292.8	2330.7	2398.3	2411.9	2367.9
42.5°	2176.1	2214.1	2286.3	2288.5	2252.0
45°	2057.0	2093.5	2160.8	2162.5	2120.0
47.5°	1936.1	1972.9	2033.0	2026.2	1986.1
50°	1813.7	1848.7	1901.3	1887.7	1851.6
52.5°	1687.0	1721.0	1770.7	1748.6	1714.6
55°	1559.6	1591.1	1632.6	1609.0	1582.5
57.5°	1431.2	1463.0	1494.9	1470.9	1448.0
60°	1301.7	1329.6	1355.7	1331.4	1313.8
62.5°	1170.0	1194.0	1216.5	1193.3	1176.8
65°	1036.9	1058.0	1076.6	1055.2	1037.6
67.5°	904.5	922.4	939.6	917.4	899.1
70°	772.1	787.5	803.3	780.4	763.5
72.5°	641.5	655.1	669.1	646.9	632.2
75°	514.5	526.3	537.8	518.1	506.6
77.5°	393.2	403.2	411.1	398.6	387.5
80°	280.5	288.0	292.7	287.7	277.3
82.5°	180.3	185.7	188.2	187.8	181.0
85°	98.0	99.8	104.5	105.6	102.0
87.5°	37.9	40.4	41.5	44.7	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)