

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: P489882

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-40-120-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: P489882  
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-LD4-4LO-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

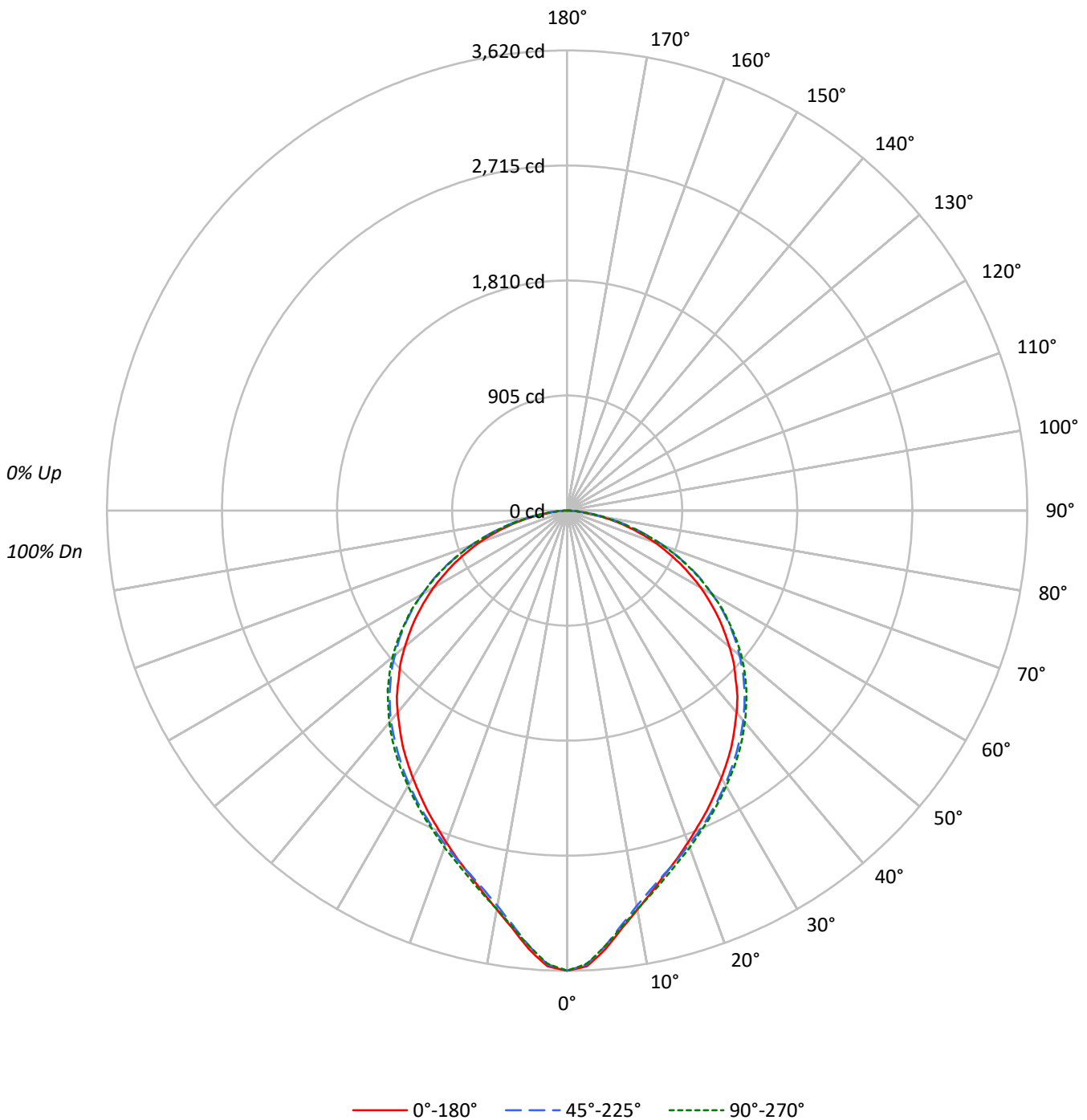
Lumens per Lamp: N/A  
Luminaire Lumens: 8407.4 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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### Luminous Intensity Polar Plot





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**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°	4870	4870	4870
5°	4676	4643	4643
10°	4352	4312	4346
15°	4130	4122	4162
20°	3978	4007	4038
25°	3864	3927	3950
30°	3771	3864	3888
35°	3706	3815	3854
40°	3641	3789	3820
45°	3566	3752	3796
50°	3487	3705	3754
55°	3390	3651	3666
60°	3268	3551	3544
65°	3098	3415	3392
70°	2893	3185	3145
75°	2553	2821	2793
80°	2074	2299	2186
85°	1439	1465	1409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.8	3.8
10°-20°	837.8	10.0
20°-30°	1218.2	14.5
30°-40°	1449.7	17.2
40°-50°	1505.3	17.9
50°-60°	1363.7	16.2
60°-70°	1029.0	12.2
70°-80°	560.7	6.7
80°-90°	123.2	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°	2375.8	28.3
0°-40°	3825.5	45.5
0°-60°	6694.5	79.6
0°-90°	8407.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8407.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3620	3620	3620	3620	3620	
5°	3462	3454	3438	3436	3438	321
15°	2965	2957	2959	2979	2988	837
25°	2603	2625	2646	2667	2661	1199
35°	2256	2284	2323	2358	2346	1411
45°	1874	1907	1972	1993	1995	1449
55°	1445	1480	1556	1567	1563	1290
65°	973	1001	1073	1071	1065	962
75°	491	511	543	546	537	523
85°	93	94	95	94	91	118
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3619.5	3619.5	3619.5	3619.5	3619.5
2.5°	3587.8	3584.2	3572.5	3567.9	3567.0
5°	3462.1	3454.0	3437.7	3435.9	3437.7
7.5°	3312.0	3302.9	3286.7	3293.0	3301.2
10°	3185.4	3162.8	3156.4	3165.5	3180.9
12.5°	3072.3	3054.2	3048.8	3072.3	3083.2
15°	2964.7	2957.4	2959.3	2979.2	2988.2
17.5°	2871.6	2867.0	2878.8	2894.2	2898.7
20°	2778.4	2787.5	2798.3	2814.6	2820.0
22.5°	2687.1	2704.2	2722.3	2744.0	2736.8
25°	2603.0	2624.6	2645.5	2667.1	2660.8
27.5°	2513.4	2538.7	2567.7	2591.2	2582.1
30°	2427.4	2459.1	2487.2	2516.1	2502.6
32.5°	2342.5	2372.3	2405.8	2441.0	2425.7
35°	2256.5	2283.7	2322.6	2357.9	2346.1
37.5°	2161.6	2195.0	2239.3	2270.1	2262.0
40°	2073.0	2103.7	2157.1	2177.0	2175.1
42.5°	1983.4	2008.8	2064.8	2087.4	2083.8
45°	1874.0	1907.4	1971.6	1993.4	1995.2
47.5°	1777.2	1805.3	1874.0	1891.1	1894.7
50°	1666.0	1701.2	1770.0	1790.7	1793.5
52.5°	1556.5	1594.5	1665.0	1679.5	1682.3
55°	1445.2	1479.6	1556.5	1567.4	1562.9
57.5°	1328.6	1370.2	1440.8	1446.2	1450.7
60°	1214.6	1250.8	1319.5	1326.8	1316.9
62.5°	1090.8	1127.8	1198.4	1200.2	1192.0
65°	973.1	1001.2	1072.6	1070.8	1065.4
67.5°	850.1	884.5	937.0	938.8	934.3
70°	735.3	758.8	809.5	810.4	799.5
72.5°	611.4	636.7	677.4	672.0	669.3
75°	491.1	511.0	542.7	546.3	537.2
77.5°	380.8	395.2	418.8	416.1	406.1
80°	267.7	279.5	296.7	293.1	282.1
82.5°	170.9	178.2	189.0	184.5	180.0
85°	93.2	94.0	94.9	94.0	91.3
87.5°	34.4	35.3	35.3	34.4	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)