

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: P489876

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-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: P489876  
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-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

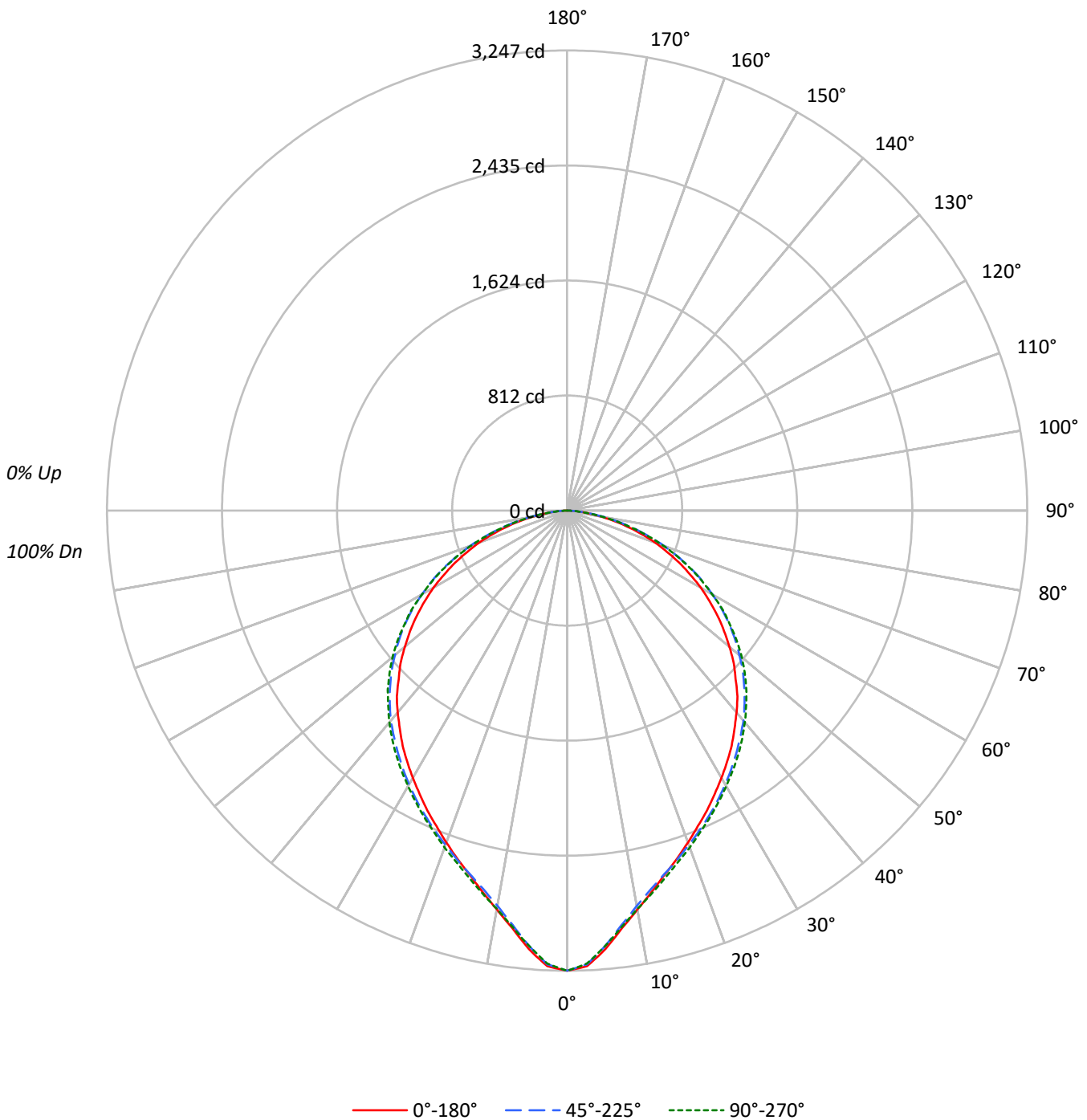
Lumens per Lamp: N/A  
Luminaire Lumens: 7541.4 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	4368	4368	4368
5°	4194	4165	4165
10°	3904	3868	3898
15°	3704	3698	3734
20°	3568	3594	3622
25°	3466	3523	3543
30°	3383	3466	3488
35°	3325	3422	3457
40°	3266	3398	3427
45°	3199	3365	3405
50°	3128	3323	3368
55°	3041	3275	3289
60°	2932	3185	3179
65°	2779	3063	3042
70°	2594	2856	2821
75°	2290	2531	2505
80°	1860	2062	1961
85°	1291	1315	1264



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.9	3.8
10°-20°	751.5	10.0
20°-30°	1092.8	14.5
30°-40°	1300.3	17.2
40°-50°	1350.2	17.9
50°-60°	1223.2	16.2
60°-70°	923.0	12.2
70°-80°	502.9	6.7
80°-90°	110.5	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°	2131.1	28.3
0°-40°	3431.5	45.5
0°-60°	6004.9	79.6
0°-90°	7541.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7541.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3247	3247	3247	3247	3247	
5°	3106	3098	3084	3082	3084	288
15°	2659	2653	2654	2672	2680	751
25°	2335	2354	2373	2392	2387	1076
35°	2024	2048	2083	2115	2104	1265
45°	1681	1711	1768	1788	1790	1299
55°	1296	1327	1396	1406	1402	1158
65°	873	898	962	960	956	863
75°	440	458	487	490	482	469
85°	84	84	85	84	82	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3246.7	3246.7	3246.7	3246.7	3246.7
2.5°	3218.3	3215.0	3204.5	3200.4	3199.6
5°	3105.5	3098.2	3083.6	3082.0	3083.6
7.5°	2970.9	2962.7	2948.2	2953.8	2961.1
10°	2857.3	2837.0	2831.3	2839.4	2853.2
12.5°	2755.8	2739.6	2734.7	2755.8	2765.6
15°	2659.3	2652.8	2654.5	2672.3	2680.4
17.5°	2575.8	2571.7	2582.3	2596.1	2600.1
20°	2492.2	2500.3	2510.1	2524.7	2529.5
22.5°	2410.3	2425.7	2441.9	2461.4	2454.9
25°	2334.8	2354.3	2373.0	2392.4	2386.8
27.5°	2254.5	2277.2	2303.2	2324.3	2316.2
30°	2177.4	2205.8	2231.0	2256.9	2244.8
32.5°	2101.2	2128.0	2158.0	2189.6	2175.8
35°	2024.1	2048.4	2083.3	2115.0	2104.4
37.5°	1938.9	1968.9	2008.7	2036.2	2029.0
40°	1859.4	1887.0	1934.9	1952.7	1951.1
42.5°	1779.1	1801.8	1852.1	1872.4	1869.2
45°	1681.0	1711.0	1768.5	1788.1	1789.6
47.5°	1594.1	1619.3	1681.0	1696.3	1699.6
50°	1494.4	1526.0	1587.7	1606.3	1608.8
52.5°	1396.2	1430.2	1493.5	1506.5	1509.0
55°	1296.4	1327.2	1396.2	1406.0	1401.9
57.5°	1191.8	1229.1	1292.4	1297.2	1301.3
60°	1089.5	1122.0	1183.6	1190.1	1181.2
62.5°	978.4	1011.6	1074.9	1076.5	1069.2
65°	872.9	898.1	962.1	960.5	955.6
67.5°	762.6	793.4	840.5	842.1	838.1
70°	659.5	680.6	726.1	726.9	717.2
72.5°	548.4	571.1	607.6	602.8	600.4
75°	440.5	458.4	486.8	490.0	481.9
77.5°	341.6	354.5	375.6	373.2	364.2
80°	240.1	250.7	266.1	262.9	253.1
82.5°	153.3	159.8	169.6	165.5	161.4
85°	83.6	84.3	85.2	84.3	81.9
87.5°	30.8	31.7	31.7	30.8	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)