

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: P488845

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-27-120-EDD**

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: P488845  
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-12-4-INS-P12125-LD4-3STD-27-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

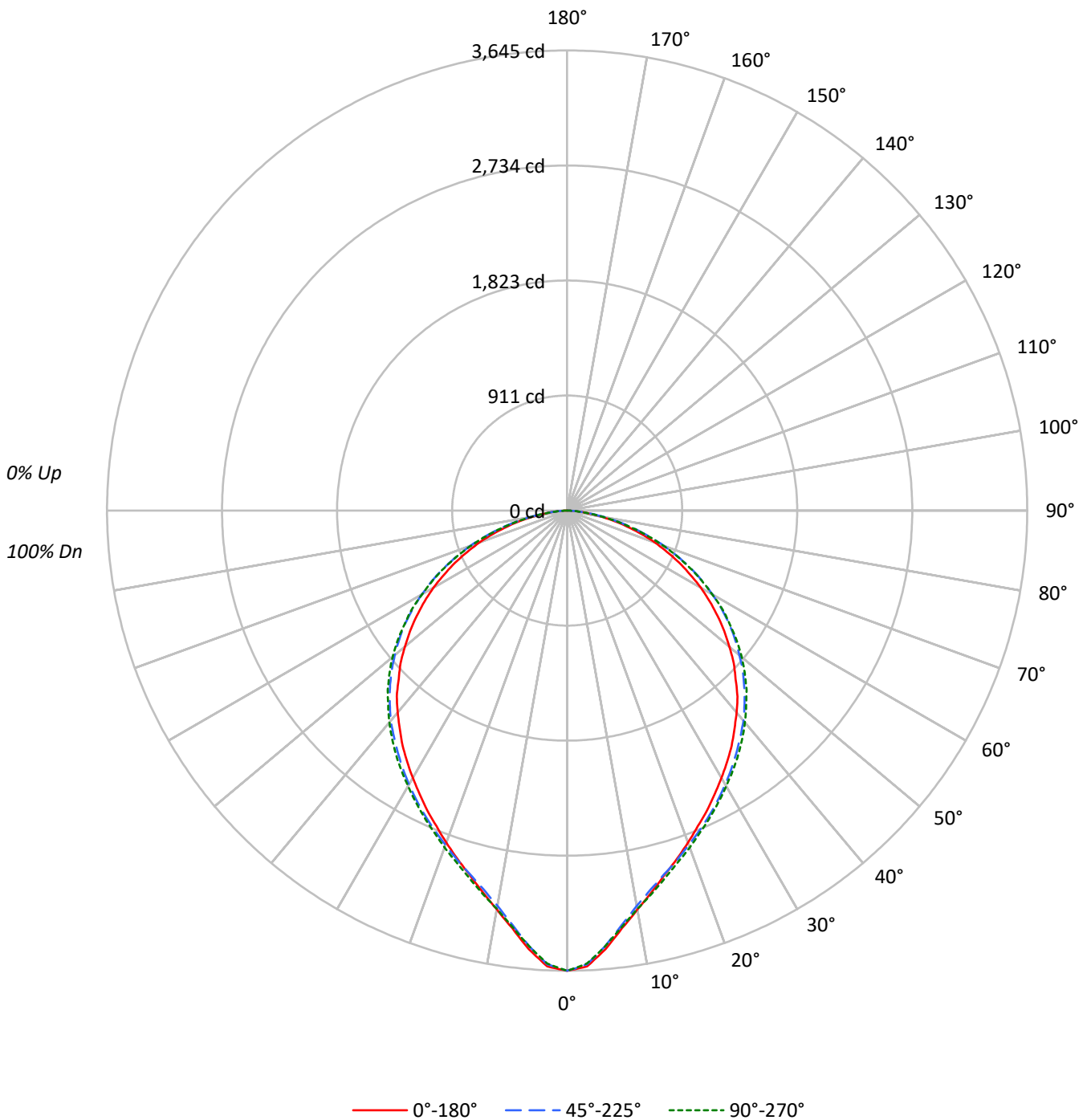
Lumens per Lamp: N/A  
Luminaire Lumens: 8467.2 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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°	9809	9809	9809
5°	9419	9352	9352
10°	8766	8686	8754
15°	8318	8303	8384
20°	8013	8070	8133
25°	7784	7911	7957
30°	7596	7783	7832
35°	7466	7684	7762
40°	7334	7631	7695
45°	7182	7557	7647
50°	7024	7463	7562
55°	6829	7355	7385
60°	6583	7152	7138
65°	6241	6878	6832
70°	5826	6414	6335
75°	5142	5682	5625
80°	4178	4630	4404
85°	2896	2952	2841



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.1	3.8
10°-20°	843.7	10.0
20°-30°	1226.9	14.5
30°-40°	1460.0	17.2
40°-50°	1516.0	17.9
50°-60°	1373.4	16.2
60°-70°	1036.4	12.2
70°-80°	564.7	6.7
80°-90°	124.1	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°	2392.7	28.3
0°-40°	3852.7	45.5
0°-60°	6742.1	79.6
0°-90°	8467.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8467.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3645	3645	3645	3645	3645	
5°	3487	3479	3462	3460	3462	324
15°	2986	2978	2980	3000	3009	843
25°	2622	2643	2664	2686	2680	1208
35°	2273	2300	2339	2375	2363	1421
45°	1887	1921	1986	2008	2009	1459
55°	1456	1490	1568	1578	1574	1300
65°	980	1008	1080	1078	1073	969
75°	495	515	546	550	541	527
85°	94	95	96	95	92	118
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3645.3	3645.3	3645.3	3645.3	3645.3
2.5°	3613.4	3609.7	3597.9	3593.3	3592.4
5°	3486.8	3478.6	3462.2	3460.4	3462.2
7.5°	3335.6	3326.4	3310.1	3316.4	3324.6
10°	3208.0	3185.3	3178.9	3188.0	3203.5
12.5°	3094.2	3076.0	3070.5	3094.2	3105.1
15°	2985.8	2978.5	2980.3	3000.4	3009.4
17.5°	2892.0	2887.4	2899.3	2914.8	2919.3
20°	2798.2	2807.3	2818.2	2834.6	2840.0
22.5°	2706.2	2723.4	2741.7	2763.5	2756.3
25°	2621.5	2643.3	2664.3	2686.1	2679.8
27.5°	2531.3	2556.7	2585.9	2609.6	2600.5
30°	2444.7	2476.6	2504.9	2534.0	2520.4
32.5°	2359.2	2389.2	2422.9	2458.4	2442.9
35°	2272.6	2299.9	2339.1	2374.6	2362.8
37.5°	2177.0	2210.6	2255.2	2286.2	2278.1
40°	2087.7	2118.7	2172.4	2192.5	2190.6
42.5°	1997.5	2023.0	2079.5	2102.3	2098.6
45°	1887.3	1921.0	1985.7	2007.6	2009.3
47.5°	1789.8	1818.1	1887.3	1904.6	1908.2
50°	1677.8	1713.3	1782.6	1803.5	1806.3
52.5°	1567.6	1605.8	1676.9	1691.4	1694.2
55°	1455.5	1490.1	1567.6	1578.5	1574.0
57.5°	1338.1	1380.0	1451.0	1456.4	1461.0
60°	1223.2	1259.7	1328.9	1336.2	1326.2
62.5°	1098.5	1135.8	1206.9	1208.7	1200.5
65°	980.1	1008.3	1080.2	1078.5	1073.0
67.5°	856.2	890.8	943.7	945.4	941.0
70°	740.5	764.2	815.2	816.1	805.2
72.5°	615.8	641.2	682.2	676.8	674.1
75°	494.6	514.6	546.5	550.2	541.0
77.5°	383.5	398.0	421.7	419.0	409.0
80°	269.6	281.4	298.8	295.1	284.2
82.5°	172.1	179.5	190.4	185.8	181.3
85°	93.8	94.7	95.6	94.7	92.0
87.5°	34.6	35.5	35.5	34.6	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)