

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: P489871

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-40-120-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: P489871  
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-LD4-4HI-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

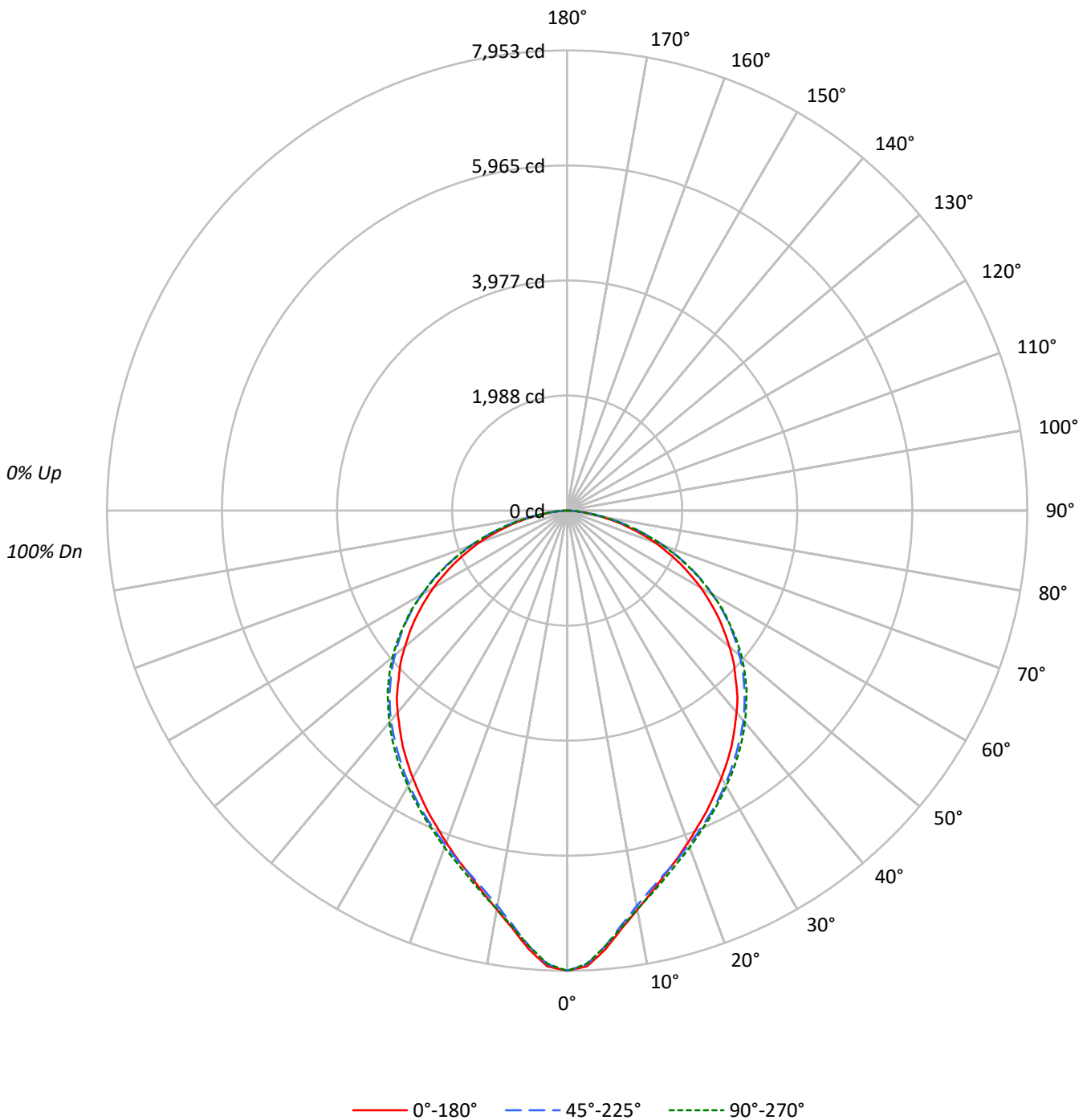
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18472.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 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): 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

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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10700	10700	10700
5°	10274	10202	10202
10°	9562	9475	9549
15°	9074	9057	9146
20°	8741	8804	8872
25°	8491	8629	8679
30°	8286	8490	8543
35°	8144	8382	8467
40°	8000	8325	8394
45°	7835	8243	8341
50°	7662	8140	8249
55°	7449	8022	8055
60°	7181	7802	7786
65°	6807	7503	7453
70°	6355	6997	6911
75°	5609	6199	6136
80°	4558	5051	4803
85°	3160	3220	3098



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	702.7	3.8
10°-20°	1840.7	10.0
20°-30°	2676.7	14.5
30°-40°	3185.2	17.2
40°-50°	3307.4	17.9
50°-60°	2996.3	16.2
60°-70°	2261.0	12.2
70°-80°	1231.9	6.7
80°-90°	270.7	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°	5220.2	28.3
0°-40°	8405.4	45.5
0°-60°	14709.1	79.6
0°-90°	18472.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18472.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7953	7953	7953	7953	7953	
5°	7607	7589	7553	7549	7553	706
15°	6514	6498	6502	6546	6566	1839
25°	5719	5767	5813	5860	5846	2635
35°	4958	5018	5103	5181	5155	3100
45°	4118	4191	4332	4380	4384	3183
55°	3176	3251	3420	3444	3434	2835
65°	2138	2200	2357	2353	2341	2114
75°	1079	1123	1192	1200	1180	1149
85°	205	207	209	207	201	258
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7952.8	7952.8	7952.8	7952.8	7952.8
2.5°	7883.2	7875.3	7849.4	7839.4	7837.4
5°	7607.0	7589.1	7553.3	7549.4	7553.3
7.5°	7277.1	7257.2	7221.5	7235.4	7253.3
10°	6998.9	6949.3	6935.2	6955.2	6988.9
12.5°	6750.4	6710.7	6698.7	6750.4	6774.4
15°	6514.0	6498.1	6502.1	6545.9	6565.6
17.5°	6309.4	6299.4	6325.3	6359.1	6369.0
20°	6104.7	6124.6	6148.4	6184.2	6196.1
22.5°	5904.0	5941.7	5981.5	6029.2	6013.3
25°	5719.2	5766.8	5812.6	5860.2	5846.4
27.5°	5522.4	5578.0	5641.7	5693.4	5673.4
30°	5333.6	5403.2	5464.8	5528.3	5498.6
32.5°	5146.9	5212.4	5285.9	5363.5	5329.7
35°	4958.1	5017.7	5103.2	5180.7	5154.8
37.5°	4749.4	4822.9	4920.2	4987.8	4970.1
40°	4554.7	4622.3	4739.5	4783.2	4779.2
42.5°	4357.9	4413.6	4536.8	4586.4	4578.5
45°	4117.5	4191.0	4332.1	4379.9	4383.7
47.5°	3904.9	3966.5	4117.5	4155.2	4163.1
50°	3660.4	3738.0	3889.0	3934.6	3940.7
52.5°	3419.9	3503.3	3658.4	3690.2	3696.2
55°	3175.5	3251.0	3419.9	3443.9	3433.9
57.5°	2919.2	3010.6	3165.7	3177.5	3187.5
60°	2668.7	2748.3	2899.3	2915.2	2893.4
62.5°	2396.6	2478.0	2633.1	2637.0	2619.1
65°	2138.2	2199.8	2356.7	2352.8	2340.9
67.5°	1867.9	1943.4	2058.8	2062.6	2052.9
70°	1615.5	1667.2	1778.5	1780.6	1756.7
72.5°	1343.4	1399.0	1488.3	1476.5	1470.6
75°	1079.0	1122.8	1192.4	1200.3	1180.4
77.5°	836.6	868.4	920.1	914.2	892.2
80°	588.2	614.0	651.9	643.9	619.9
82.5°	375.5	391.6	415.4	405.4	395.4
85°	204.7	206.6	208.6	206.6	200.7
87.5°	75.5	77.5	77.5	75.5	69.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)