

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: P489928

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-35-120-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: P489928  
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-LD4-5STD-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

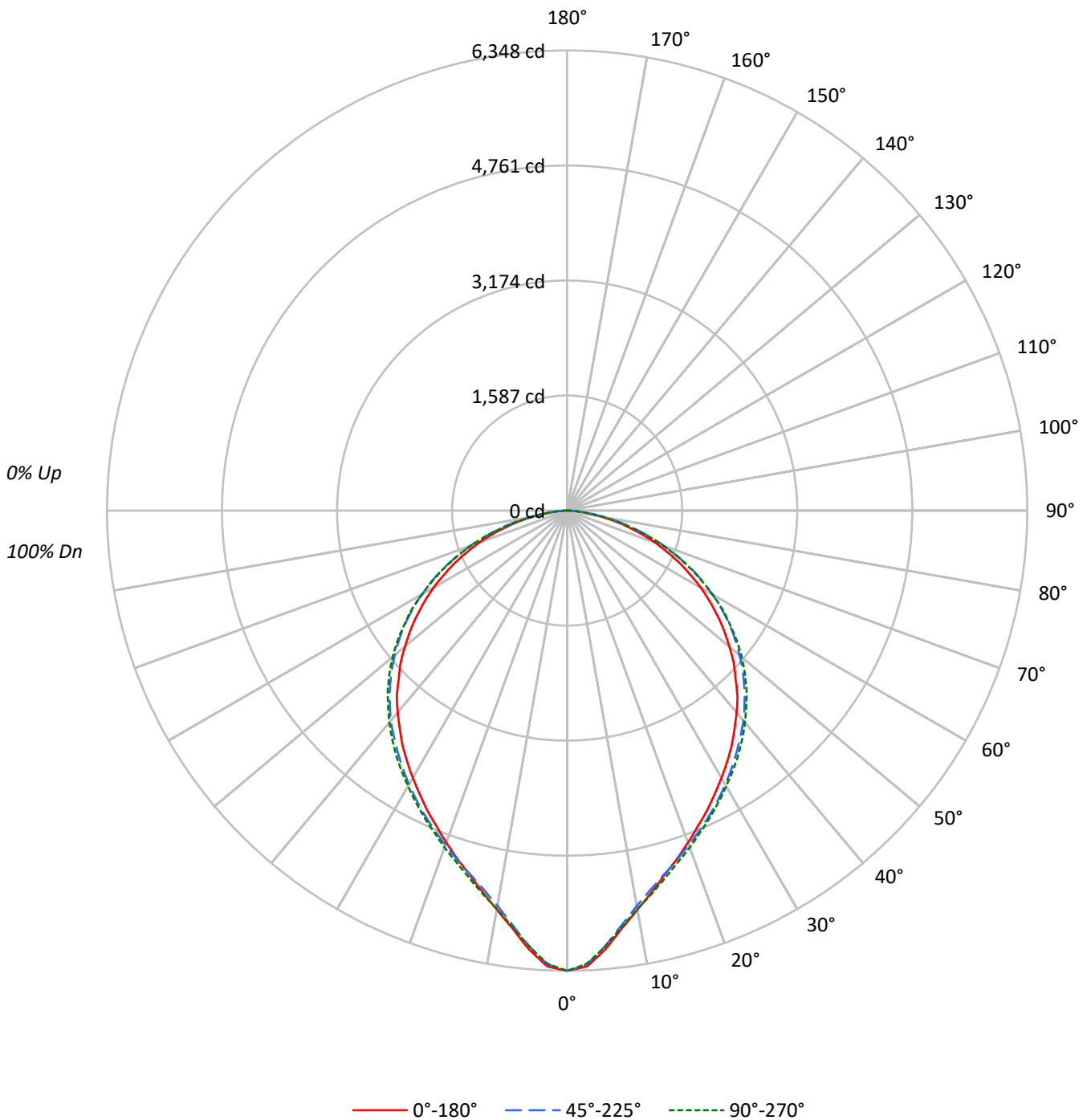
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14746.1 lumens  
Efficiency: N/A  
Efficacy: 88.6 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): 166.5  
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°	8542	8542	8542
5°	8202	8144	8144
10°	7633	7564	7622
15°	7243	7230	7301
20°	6977	7028	7082
25°	6778	6888	6929
30°	6615	6778	6819
35°	6501	6691	6759
40°	6386	6645	6701
45°	6254	6580	6659
50°	6116	6498	6585
55°	5946	6404	6430
60°	5733	6228	6215
65°	5434	5989	5949
70°	5073	5585	5517
75°	4478	4948	4899
80°	3638	4031	3835
85°	2523	2570	2473



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.0	3.8
10°-20°	1469.4	10.0
20°-30°	2136.7	14.5
30°-40°	2542.7	17.2
40°-50°	2640.2	17.9
50°-60°	2391.8	16.2
60°-70°	1804.9	12.2
70°-80°	983.4	6.7
80°-90°	216.1	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°	4167.1	28.3
0°-40°	6709.7	45.5
0°-60°	11741.7	79.6
0°-90°	14746.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14746.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6348	6348	6348	6348	6348	
5°	6072	6058	6030	6026	6030	564
15°	5200	5187	5190	5225	5241	1468
25°	4565	4604	4640	4678	4667	2104
35°	3958	4005	4074	4136	4115	2474
45°	3287	3346	3458	3496	3499	2541
55°	2535	2595	2730	2749	2741	2263
65°	1707	1756	1881	1878	1869	1687
75°	861	896	952	958	942	918
85°	163	165	166	165	160	206
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6348.4	6348.4	6348.4	6348.4	6348.4
2.5°	6292.9	6286.5	6265.9	6258.0	6256.3
5°	6072.4	6058.1	6029.5	6026.4	6029.5
7.5°	5809.1	5793.2	5764.7	5775.8	5790.1
10°	5587.0	5547.3	5536.2	5552.1	5579.0
12.5°	5388.6	5356.9	5347.4	5388.6	5407.8
15°	5199.9	5187.2	5190.4	5225.3	5241.1
17.5°	5036.6	5028.6	5049.2	5076.2	5084.2
20°	4873.1	4889.1	4908.1	4936.6	4946.1
22.5°	4712.9	4743.0	4774.8	4812.9	4800.2
25°	4565.4	4603.5	4640.0	4678.0	4667.0
27.5°	4408.3	4452.7	4503.5	4544.8	4528.9
30°	4257.6	4313.1	4362.4	4413.1	4389.3
32.5°	4108.6	4160.9	4219.6	4281.5	4254.5
35°	3957.8	4005.4	4073.7	4135.6	4114.9
37.5°	3791.3	3850.0	3927.6	3981.6	3967.4
40°	3635.8	3689.8	3783.4	3818.3	3815.0
42.5°	3478.8	3523.3	3621.5	3661.2	3654.9
45°	3286.9	3345.5	3458.1	3496.3	3499.4
47.5°	3117.1	3166.3	3286.9	3316.9	3323.3
50°	2922.0	2983.9	3104.4	3140.8	3145.7
52.5°	2730.0	2796.6	2920.4	2945.7	2950.6
55°	2534.9	2595.1	2730.0	2749.1	2741.2
57.5°	2330.3	2403.3	2527.0	2536.5	2544.4
60°	2130.3	2193.9	2314.4	2327.1	2309.7
62.5°	1913.1	1978.1	2101.9	2105.0	2090.7
65°	1706.8	1756.0	1881.3	1878.2	1868.6
67.5°	1491.1	1551.3	1643.4	1646.5	1638.7
70°	1289.6	1330.9	1419.7	1421.4	1402.3
72.5°	1072.4	1116.7	1188.1	1178.6	1173.9
75°	861.4	896.3	951.8	958.2	942.3
77.5°	667.9	693.2	734.5	729.8	712.2
80°	469.5	490.1	520.3	514.0	494.9
82.5°	299.8	312.6	331.6	323.6	315.7
85°	163.4	164.9	166.5	164.9	160.2
87.5°	60.3	61.9	61.9	60.3	55.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)