

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: P489533

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-35-120-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: P489533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
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-A12125-LD4-4STD-35-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

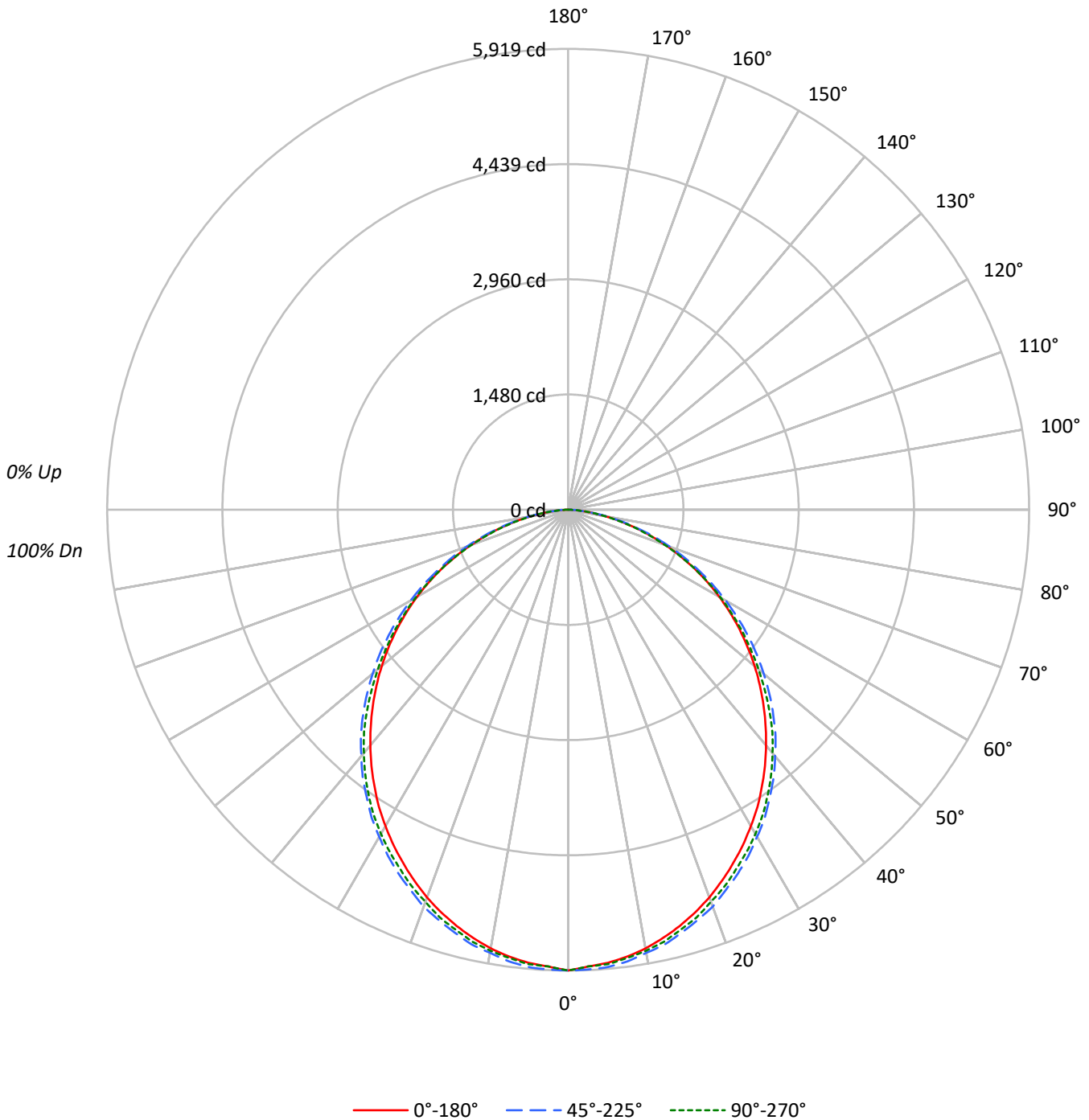
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15560.4 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 133.2  
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	7963	7963	7963
5°	7890	7964	7915
10°	7818	7897	7859
15°	7709	7834	7779
20°	7588	7768	7675
25°	7440	7656	7568
30°	7290	7537	7468
35°	7125	7408	7339
40°	6940	7260	7168
45°	6746	7086	6952
50°	6543	6859	6680
55°	6305	6601	6398
60°	6037	6287	6093
65°	5690	5907	5693
70°	5235	5446	5177
75°	4610	4818	4539
80°	3746	3908	3703
85°	2609	2780	2712



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.4	3.6
10°-20°	1579.6	10.2
20°-30°	2355.9	15.1
30°-40°	2791.8	17.9
40°-50°	2824.8	18.2
50°-60°	2467.1	15.9
60°-70°	1802.8	11.6
70°-80°	959.2	6.2
80°-90°	221.7	1.4
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°	4492.9	28.9
0°-40°	7284.7	46.8
0°-60°	12576.6	80.8
0°-90°	15560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15560.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5919	5919	5919	5919	5919	
5°	5842	5853	5896	5910	5860	554
15°	5534	5571	5624	5658	5584	1560
25°	5012	5073	5157	5176	5098	2309
35°	4338	4406	4510	4542	4468	2713
45°	3545	3608	3724	3727	3654	2735
55°	2688	2742	2814	2773	2728	2403
65°	1787	1823	1856	1818	1788	1768
75°	887	907	927	893	873	943
85°	169	172	180	182	176	214
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5918.6	5918.6	5918.6	5918.6	5918.6
2.5°	5872.4	5891.5	5911.2	5919.9	5871.8
5°	5841.5	5852.6	5896.4	5910.0	5860.0
7.5°	5791.0	5807.6	5850.2	5856.3	5808.2
10°	5721.9	5751.5	5779.9	5810.7	5752.1
12.5°	5633.7	5673.8	5721.9	5727.5	5683.1
15°	5534.4	5571.4	5623.9	5657.8	5584.4
17.5°	5423.5	5459.2	5527.0	5533.2	5488.8
20°	5299.5	5343.9	5425.3	5439.5	5359.9
22.5°	5158.9	5218.7	5286.6	5300.1	5241.5
25°	5011.5	5073.2	5157.1	5176.2	5097.9
27.5°	4857.4	4916.6	5010.9	5024.5	4958.5
30°	4692.1	4747.6	4851.2	4874.0	4806.8
32.5°	4524.4	4579.9	4694.6	4713.7	4648.3
35°	4338.1	4406.0	4510.2	4541.6	4468.3
37.5°	4148.2	4214.2	4332.6	4361.0	4282.0
40°	3951.5	4016.9	4133.4	4156.8	4081.0
42.5°	3750.5	3815.8	3940.4	3944.1	3881.2
45°	3545.1	3608.0	3724.0	3727.0	3653.7
47.5°	3336.7	3400.2	3503.8	3492.1	3423.0
50°	3125.8	3186.2	3276.9	3253.5	3191.2
52.5°	2907.5	2966.1	3051.8	3013.6	2955.0
55°	2688.0	2742.2	2813.8	2773.1	2727.5
57.5°	2466.6	2521.5	2576.4	2535.1	2495.6
60°	2243.4	2291.5	2336.5	2294.6	2264.3
62.5°	2016.5	2057.8	2096.6	2056.5	2028.2
65°	1787.1	1823.4	1855.5	1818.5	1788.3
67.5°	1558.9	1589.7	1619.3	1581.1	1549.6
70°	1330.7	1357.3	1384.4	1344.9	1315.9
72.5°	1105.7	1129.1	1153.1	1114.9	1089.6
75°	886.7	907.1	926.8	892.9	873.2
77.5°	677.7	695.0	708.5	686.9	667.8
80°	483.5	496.4	504.4	495.8	477.9
82.5°	310.8	320.0	324.4	323.7	312.0
85°	169.0	172.0	180.1	181.9	175.7
87.5°	65.4	69.7	71.5	77.1	70.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)