

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: P489571

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-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: P489571  
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-LD4-5STD-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

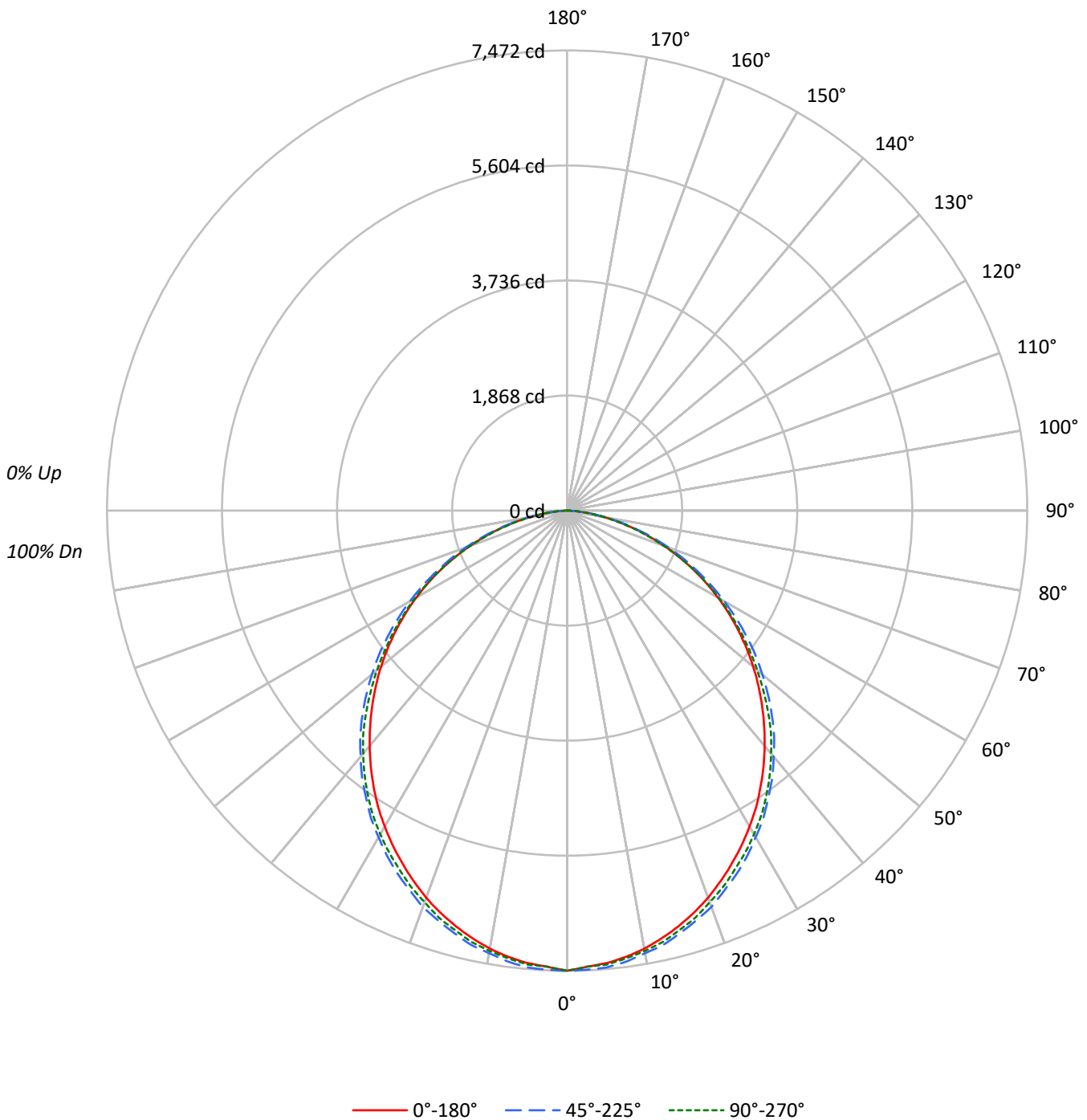
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19644.9 lumens  
Efficiency: N/A  
Efficacy: 118.0 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): 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	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°	10054	10054	10054
5°	9961	10054	9992
10°	9870	9970	9922
15°	9733	9890	9821
20°	9580	9807	9689
25°	9393	9666	9555
30°	9203	9515	9428
35°	8996	9353	9266
40°	8762	9166	9049
45°	8516	8946	8777
50°	8260	8660	8433
55°	7961	8333	8077
60°	7622	7938	7693
65°	7183	7458	7188
70°	6609	6876	6536
75°	5820	6083	5731
80°	4730	4934	4675
85°	3293	3509	3426



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	703.7	3.6
10°-20°	1994.2	10.2
20°-30°	2974.3	15.1
30°-40°	3524.6	17.9
40°-50°	3566.3	18.2
50°-60°	3114.7	15.9
60°-70°	2276.1	11.6
70°-80°	1211.1	6.2
80°-90°	279.9	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
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0°-30°	5672.3	28.9
0°-40°	9196.9	46.8
0°-60°	15877.9	80.8
0°-90°	19644.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19644.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7472	7472	7472	7472	7472	
5°	7375	7389	7444	7461	7398	699
15°	6987	7034	7100	7143	7050	1970
25°	6327	6405	6511	6535	6436	2915
35°	5477	5562	5694	5734	5641	3425
45°	4476	4555	4702	4705	4613	3453
55°	3394	3462	3552	3501	3443	3034
65°	2256	2302	2343	2296	2258	2233
75°	1120	1145	1170	1127	1102	1190
85°	213	217	227	230	222	270
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7472.2	7472.2	7472.2	7472.2	7472.2
2.5°	7413.8	7438.0	7462.9	7473.8	7413.1
5°	7374.9	7388.9	7444.2	7461.3	7398.3
7.5°	7311.1	7332.1	7385.8	7393.6	7332.9
10°	7223.9	7261.2	7297.1	7336.0	7262.0
12.5°	7112.5	7163.1	7223.9	7230.9	7174.8
15°	6987.2	7033.9	7100.1	7142.9	7050.3
17.5°	6847.1	6892.2	6977.9	6985.6	6929.6
20°	6690.6	6746.6	6849.4	6867.3	6766.9
22.5°	6513.1	6588.6	6674.2	6691.4	6617.4
25°	6327.0	6404.9	6510.8	6534.9	6436.0
27.5°	6132.4	6207.1	6326.2	6343.4	6260.1
30°	5923.7	5993.8	6124.6	6153.4	6068.6
32.5°	5712.0	5782.1	5926.9	5951.0	5868.5
35°	5476.9	5562.5	5694.1	5733.8	5641.1
37.5°	5237.1	5320.4	5469.9	5505.7	5406.0
40°	4988.7	5071.3	5218.4	5248.0	5152.2
42.5°	4734.9	4817.5	4974.7	4979.4	4900.0
45°	4475.7	4555.1	4701.5	4705.4	4612.7
47.5°	4212.6	4292.8	4423.5	4408.8	4321.6
50°	3946.3	4022.6	4137.0	4107.5	4028.8
52.5°	3670.7	3744.7	3852.9	3804.6	3730.7
55°	3393.6	3462.1	3552.4	3501.0	3443.4
57.5°	3114.1	3183.4	3252.7	3200.5	3150.7
60°	2832.3	2893.0	2949.8	2896.9	2858.7
62.5°	2545.8	2597.9	2647.0	2596.4	2560.5
65°	2256.1	2302.1	2342.6	2295.9	2257.7
67.5°	1968.1	2007.0	2044.4	1996.1	1956.4
70°	1680.0	1713.5	1747.8	1697.9	1661.4
72.5°	1395.9	1425.5	1455.8	1407.6	1375.6
75°	1119.5	1145.2	1170.1	1127.3	1102.4
77.5°	855.6	877.4	894.5	867.3	843.1
80°	610.4	626.7	636.8	625.9	603.4
82.5°	392.4	404.1	409.5	408.7	393.9
85°	213.3	217.2	227.3	229.7	221.9
87.5°	82.5	88.0	90.3	97.3	89.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)