

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: P489473

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-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: P489473  
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-LD4-3HI-35-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

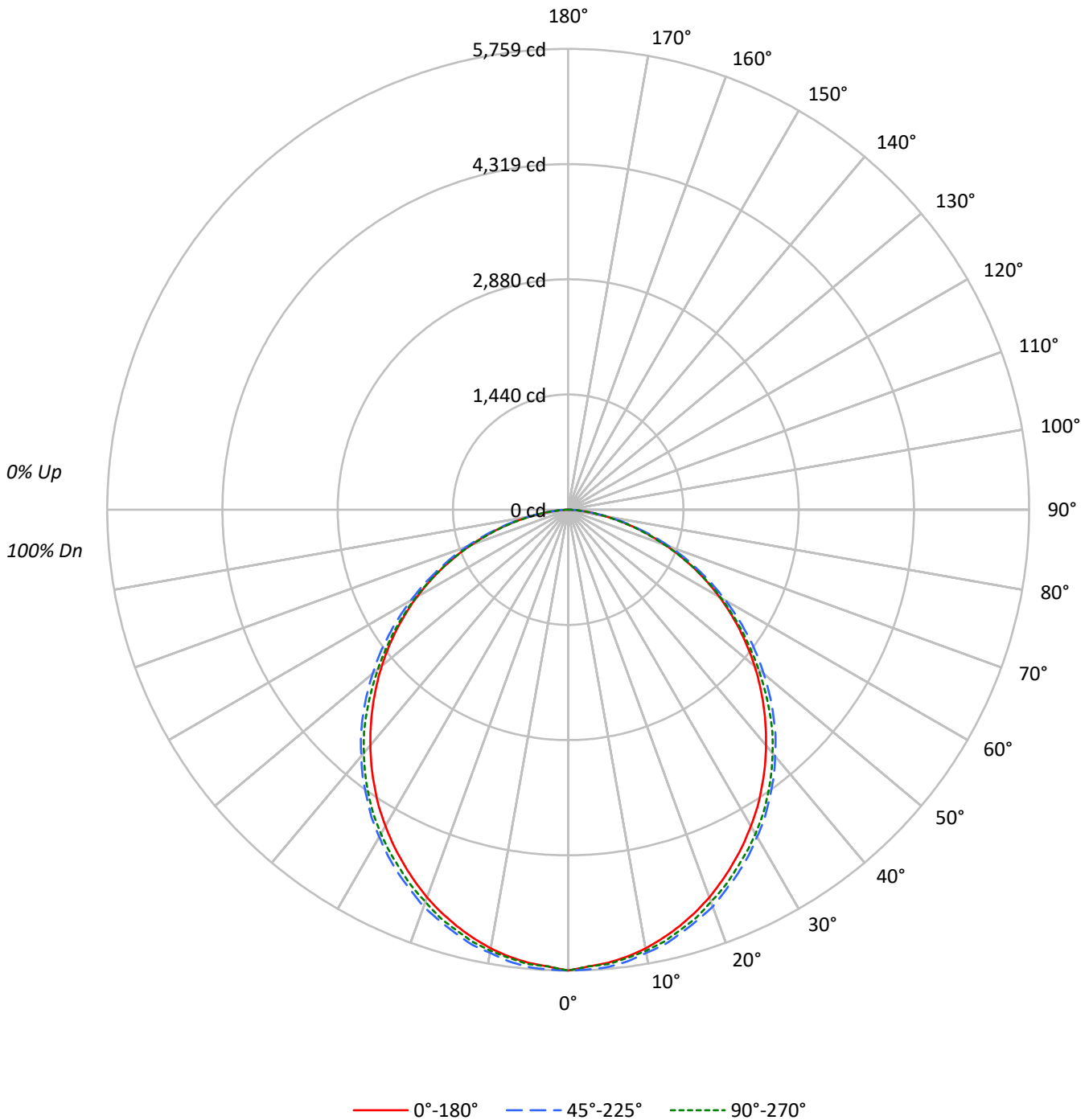
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15139.8 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): 129.6  
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°	7748	7748	7748
5°	7676	7749	7701
10°	7606	7683	7646
15°	7501	7622	7569
20°	7383	7558	7467
25°	7239	7449	7364
30°	7093	7333	7266
35°	6933	7208	7141
40°	6753	7064	6974
45°	6563	6894	6764
50°	6366	6674	6499
55°	6135	6422	6225
60°	5874	6117	5928
65°	5536	5748	5540
70°	5094	5299	5037
75°	4485	4688	4417
80°	3645	3803	3603
85°	2538	2705	2640



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.3	3.6
10°-20°	1536.9	10.2
20°-30°	2292.2	15.1
30°-40°	2716.3	17.9
40°-50°	2748.5	18.2
50°-60°	2400.4	15.9
60°-70°	1754.1	11.6
70°-80°	933.4	6.2
80°-90°	215.7	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°	4371.5	28.9
0°-40°	7087.8	46.8
0°-60°	12236.7	80.8
0°-90°	15139.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15139.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5759	5759	5759	5759	5759	
5°	5684	5694	5737	5750	5702	539
15°	5385	5421	5472	5505	5434	1518
25°	4876	4936	5018	5036	4960	2246
35°	4221	4287	4388	4419	4348	2640
45°	3449	3510	3623	3626	3555	2661
55°	2615	2668	2738	2698	2654	2338
65°	1739	1774	1805	1769	1740	1721
75°	863	883	902	869	850	917
85°	164	167	175	177	171	208
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5758.6	5758.6	5758.6	5758.6	5758.6
2.5°	5713.6	5732.2	5751.4	5759.8	5713.0
5°	5683.6	5694.4	5737.0	5750.2	5701.6
7.5°	5634.4	5650.6	5692.0	5698.0	5651.2
10°	5567.2	5596.0	5623.6	5653.6	5596.6
12.5°	5481.4	5520.4	5567.2	5572.6	5529.4
15°	5384.9	5420.9	5471.8	5504.8	5433.5
17.5°	5276.9	5311.7	5377.7	5383.7	5340.5
20°	5156.3	5199.5	5278.7	5292.5	5215.1
22.5°	5019.5	5077.7	5143.7	5156.9	5099.9
25°	4876.1	4936.1	5017.7	5036.3	4960.1
27.5°	4726.1	4783.7	4875.5	4888.7	4824.5
30°	4565.3	4619.3	4720.1	4742.3	4676.9
32.5°	4402.1	4456.1	4567.7	4586.3	4522.7
35°	4220.9	4286.9	4388.3	4418.9	4347.5
37.5°	4036.1	4100.3	4215.5	4243.1	4166.3
40°	3844.7	3908.3	4021.7	4044.5	3970.7
42.5°	3649.1	3712.7	3833.9	3837.5	3776.3
45°	3449.3	3510.5	3623.3	3626.3	3554.9
47.5°	3246.5	3308.3	3409.1	3397.7	3330.5
50°	3041.3	3100.1	3188.3	3165.5	3104.9
52.5°	2828.9	2885.9	2969.3	2932.1	2875.1
55°	2615.3	2668.1	2737.7	2698.1	2653.7
57.5°	2399.9	2453.3	2506.7	2466.5	2428.1
60°	2182.7	2229.5	2273.3	2232.5	2203.1
62.5°	1961.9	2002.1	2039.9	2000.9	1973.3
65°	1738.8	1774.2	1805.4	1769.4	1740.0
67.5°	1516.8	1546.8	1575.6	1538.4	1507.8
70°	1294.8	1320.6	1347.0	1308.6	1280.4
72.5°	1075.8	1098.6	1122.0	1084.8	1060.2
75°	862.8	882.6	901.8	868.8	849.6
77.5°	659.4	676.2	689.4	668.4	649.8
80°	470.4	483.0	490.8	482.4	465.0
82.5°	302.4	311.4	315.6	315.0	303.6
85°	164.4	167.4	175.2	177.0	171.0
87.5°	63.6	67.8	69.6	75.0	69.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)