

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: P489541

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-27-120-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: P489541  
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-LD4-5HI-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

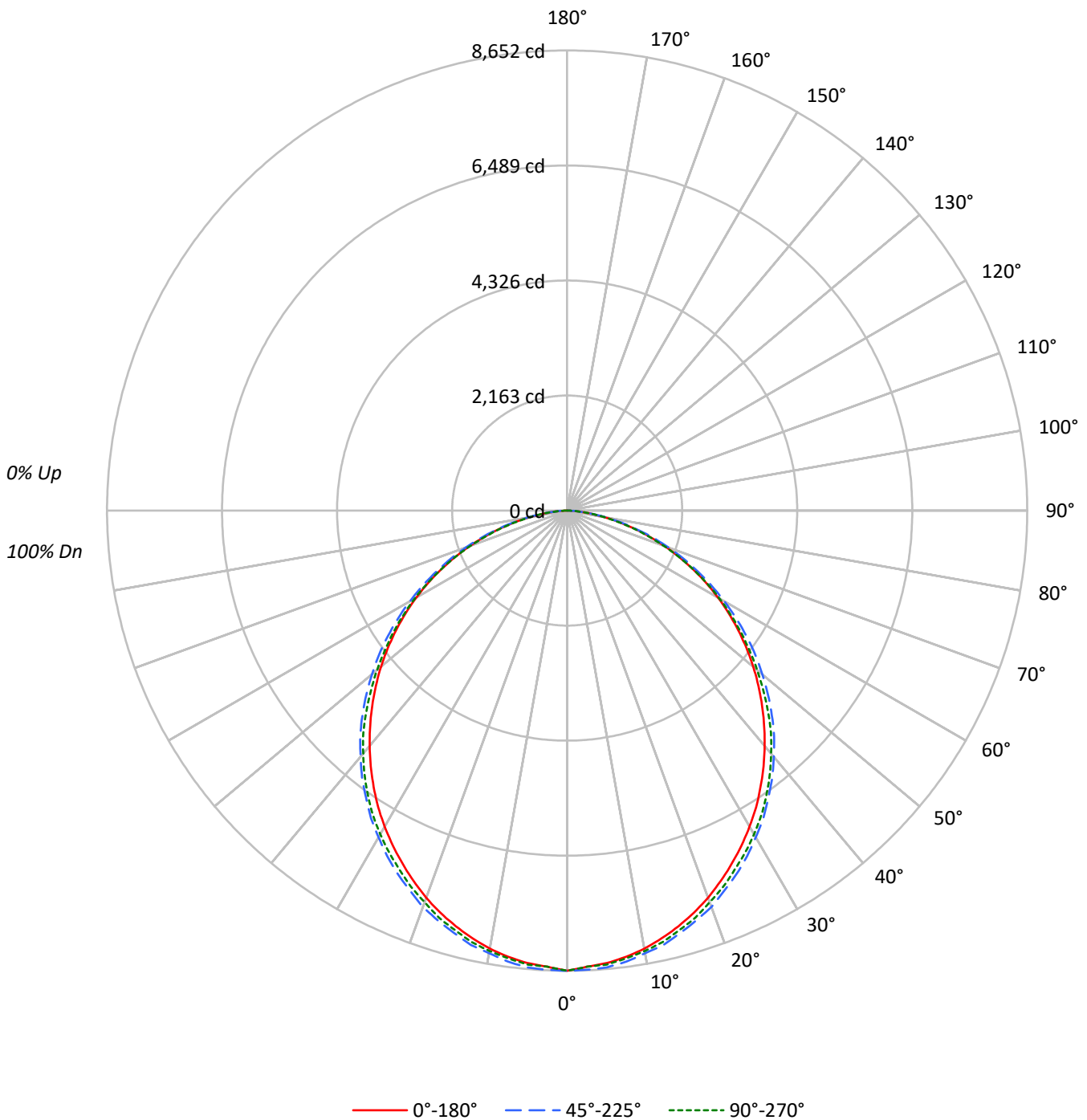
Lumens per Lamp: N/A  
Luminaire Lumens: 22747.7 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 216  
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°	11642	11642	11642
5°	11534	11642	11571
10°	11428	11544	11489
15°	11270	11452	11372
20°	11093	11356	11219
25°	10877	11192	11064
30°	10657	11018	10917
35°	10417	10830	10729
40°	10146	10613	10479
45°	9861	10359	10163
50°	9565	10028	9765
55°	9218	9649	9353
60°	8825	9192	8908
65°	8317	8636	8323
70°	7653	7962	7568
75°	6739	7044	6636
80°	5477	5714	5413
85°	3813	4063	3966



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.9	3.6
10°-20°	2309.2	10.2
20°-30°	3444.1	15.1
30°-40°	4081.3	17.9
40°-50°	4129.6	18.2
50°-60°	3606.6	15.9
60°-70°	2635.6	11.6
70°-80°	1402.3	6.2
80°-90°	324.1	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°	6568.2	28.9
0°-40°	10649.4	46.8
0°-60°	18385.7	80.8
0°-90°	22747.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22747.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8652	8652	8652	8652	8652	
5°	8540	8556	8620	8640	8567	810
15°	8091	8145	8222	8271	8164	2281
25°	7326	7416	7539	7567	7452	3375
35°	6342	6441	6593	6639	6532	3966
45°	5183	5275	5444	5449	5341	3998
55°	3930	4009	4114	4054	3987	3513
65°	2612	2666	2713	2658	2614	2585
75°	1296	1326	1355	1305	1276	1378
85°	247	252	263	266	257	313
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8652.4	8652.4	8652.4	8652.4	8652.4
2.5°	8584.8	8612.8	8641.6	8654.2	8583.9
5°	8539.7	8556.0	8620.0	8639.8	8566.8
7.5°	8465.8	8490.1	8552.4	8561.4	8491.1
10°	8364.8	8408.1	8449.6	8494.7	8409.0
12.5°	8235.9	8294.5	8364.8	8373.0	8308.0
15°	8090.8	8144.9	8221.5	8271.1	8163.8
17.5°	7928.5	7980.8	8080.0	8089.0	8024.1
20°	7747.3	7812.2	7931.2	7952.0	7835.7
22.5°	7541.8	7629.2	7728.4	7748.2	7662.6
25°	7326.3	7416.5	7539.1	7567.0	7452.5
27.5°	7101.0	7187.5	7325.4	7345.3	7248.8
30°	6859.4	6940.5	7092.0	7125.3	7027.0
32.5°	6614.2	6695.3	6863.0	6890.9	6795.4
35°	6341.9	6441.1	6593.4	6639.4	6532.1
37.5°	6064.3	6160.7	6333.8	6375.3	6259.9
40°	5776.7	5872.2	6042.6	6076.9	5966.0
42.5°	5482.8	5578.4	5760.5	5765.9	5673.9
45°	5182.6	5274.6	5444.0	5448.6	5341.3
47.5°	4877.9	4970.8	5122.2	5105.1	5004.1
50°	4569.6	4658.0	4790.5	4756.2	4665.2
52.5°	4250.5	4336.1	4461.4	4405.5	4319.9
55°	3929.6	4008.9	4113.5	4054.0	3987.3
57.5°	3605.9	3686.2	3766.4	3706.0	3648.3
60°	3279.6	3349.9	3415.7	3354.4	3310.2
62.5°	2947.8	3008.2	3065.0	3006.4	2965.0
65°	2612.5	2665.7	2712.6	2658.5	2614.3
67.5°	2278.9	2324.0	2367.3	2311.4	2265.4
70°	1945.4	1984.2	2023.8	1966.1	1923.8
72.5°	1616.4	1650.6	1685.8	1629.9	1592.9
75°	1296.3	1326.1	1354.9	1305.3	1276.5
77.5°	990.7	1016.0	1035.8	1004.2	976.3
80°	706.8	725.7	737.4	724.8	698.6
82.5°	454.3	467.9	474.2	473.3	456.1
85°	247.0	251.5	263.2	265.9	256.9
87.5°	95.6	101.9	104.6	112.7	103.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)