

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: P489552

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-27-120-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: P489552  
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-LD4-5LO-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

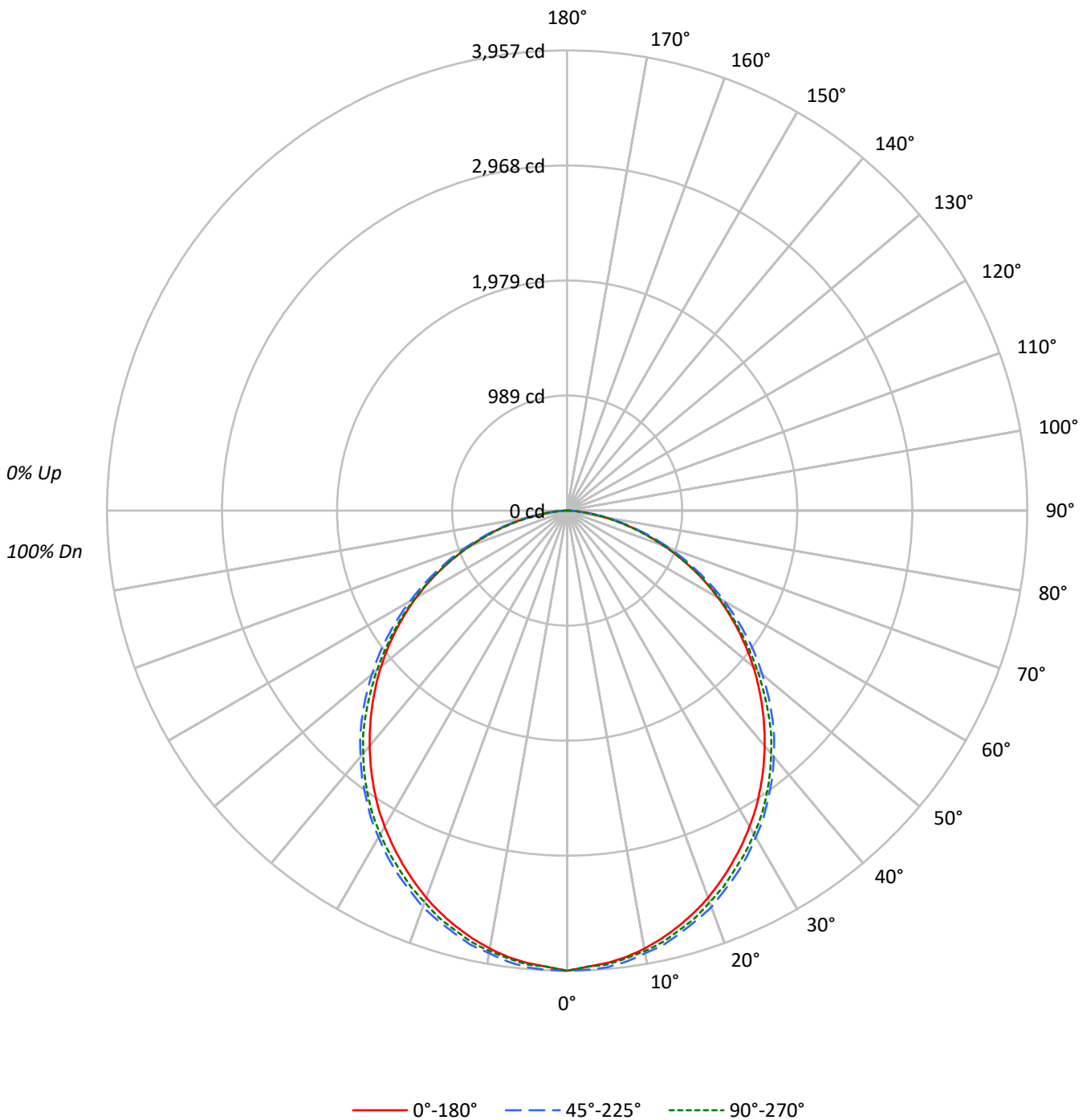
Lumens per Lamp: N/A  
Luminaire Lumens: 10404.3 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 117  
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°	5325	5325	5325
5°	5275	5325	5292
10°	5227	5280	5255
15°	5155	5238	5201
20°	5074	5194	5132
25°	4975	5119	5060
30°	4874	5040	4993
35°	4765	4953	4907
40°	4641	4854	4793
45°	4510	4738	4649
50°	4375	4586	4466
55°	4216	4413	4278
60°	4036	4204	4074
65°	3804	3950	3807
70°	3500	3642	3461
75°	3082	3222	3035
80°	2505	2614	2476
85°	1744	1859	1814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.7	3.6
10°-20°	1056.2	10.2
20°-30°	1575.2	15.1
30°-40°	1866.7	17.9
40°-50°	1888.8	18.2
50°-60°	1649.6	15.9
60°-70°	1205.5	11.6
70°-80°	641.4	6.2
80°-90°	148.2	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°	3004.1	28.9
0°-40°	4870.8	46.8
0°-60°	8409.2	80.8
0°-90°	10404.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10404.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3957	3957	3957	3957	3957	
5°	3906	3913	3943	3952	3918	370
15°	3701	3725	3760	3783	3734	1043
25°	3351	3392	3448	3461	3409	1544
35°	2901	2946	3016	3037	2988	1814
45°	2370	2412	2490	2492	2443	1829
55°	1797	1834	1881	1854	1824	1607
65°	1195	1219	1241	1216	1196	1182
75°	593	606	620	597	584	630
85°	113	115	120	122	118	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3957.4	3957.4	3957.4	3957.4	3957.4
2.5°	3926.5	3939.3	3952.5	3958.3	3926.1
5°	3905.9	3913.3	3942.6	3951.7	3918.3
7.5°	3872.1	3883.2	3911.7	3915.8	3883.6
10°	3825.9	3845.7	3864.7	3885.3	3846.1
12.5°	3766.9	3793.7	3825.9	3829.6	3799.9
15°	3700.6	3725.3	3760.3	3783.0	3733.9
17.5°	3626.3	3650.2	3695.6	3699.7	3670.0
20°	3543.5	3573.1	3627.6	3637.1	3583.9
22.5°	3449.5	3489.4	3534.8	3543.9	3504.7
25°	3350.9	3392.1	3448.2	3461.0	3408.6
27.5°	3247.8	3287.4	3350.5	3359.6	3315.4
30°	3137.3	3174.4	3243.7	3259.0	3214.0
32.5°	3025.2	3062.3	3139.0	3151.8	3108.1
35°	2900.7	2946.0	3015.7	3036.7	2987.7
37.5°	2773.7	2817.8	2896.9	2915.9	2863.1
40°	2642.1	2685.8	2763.8	2779.4	2728.7
42.5°	2507.7	2551.4	2634.7	2637.2	2595.1
45°	2370.4	2412.5	2490.0	2492.0	2443.0
47.5°	2231.1	2273.5	2342.8	2335.0	2288.8
50°	2090.0	2130.4	2191.1	2175.4	2133.7
52.5°	1944.1	1983.2	2040.6	2015.0	1975.8
55°	1797.3	1833.6	1881.4	1854.2	1823.7
57.5°	1649.3	1686.0	1722.7	1695.0	1668.6
60°	1500.0	1532.2	1562.3	1534.2	1514.0
62.5°	1348.3	1375.9	1401.9	1375.1	1356.1
65°	1194.9	1219.2	1240.7	1215.9	1195.7
67.5°	1042.3	1063.0	1082.7	1057.2	1036.2
70°	889.8	907.5	925.7	899.3	879.9
72.5°	739.3	755.0	771.0	745.5	728.6
75°	592.9	606.5	619.7	597.0	583.8
77.5°	453.1	464.7	473.8	459.3	446.5
80°	323.3	331.9	337.3	331.5	319.5
82.5°	207.8	214.0	216.9	216.5	208.6
85°	113.0	115.0	120.4	121.6	117.5
87.5°	43.7	46.6	47.8	51.5	47.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)