

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: P489489

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-50-120-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: P489489  
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-LD4-3LO-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

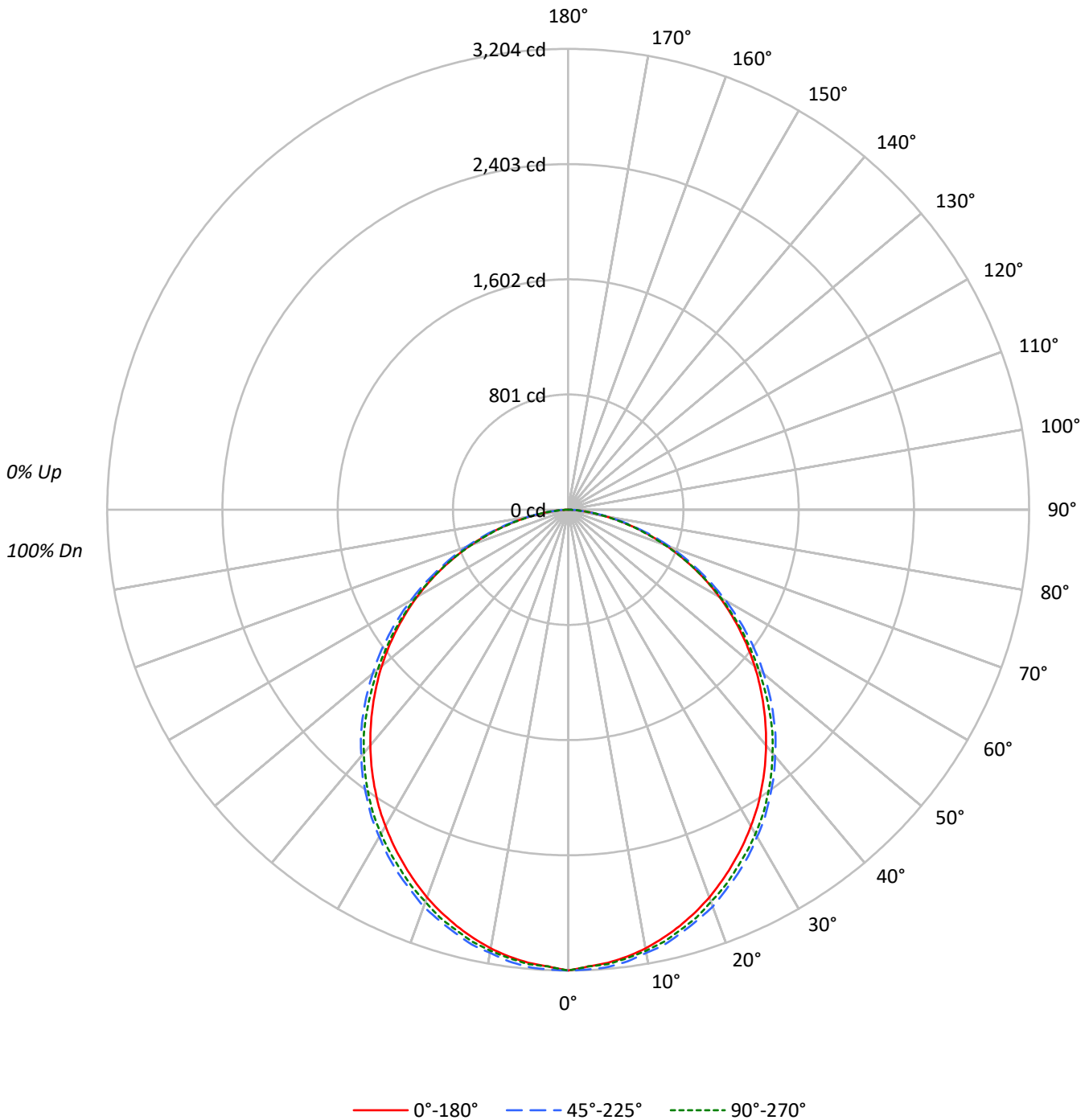
Lumens per Lamp: N/A  
Luminaire Lumens: 8423.3 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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°	4311	4311	4311
5°	4271	4311	4284
10°	4232	4275	4254
15°	4173	4241	4211
20°	4108	4205	4154
25°	4028	4145	4097
30°	3946	4080	4043
35°	3857	4010	3973
40°	3757	3930	3880
45°	3652	3836	3763
50°	3542	3713	3616
55°	3413	3573	3463
60°	3268	3404	3299
65°	3080	3198	3082
70°	2834	2948	2803
75°	2495	2608	2457
80°	2028	2116	2005
85°	1413	1505	1468



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	3.6
10°-20°	855.1	10.2
20°-30°	1275.3	15.1
30°-40°	1511.3	17.9
40°-50°	1529.2	18.2
50°-60°	1335.5	15.9
60°-70°	975.9	11.6
70°-80°	519.3	6.2
80°-90°	120.0	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°	2432.2	28.9
0°-40°	3943.4	46.8
0°-60°	6808.1	80.8
0°-90°	8423.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8423.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3204	3204	3204	3204	3204	
5°	3162	3168	3192	3199	3172	300
15°	2996	3016	3044	3063	3023	845
25°	2713	2746	2792	2802	2760	1250
35°	2348	2385	2442	2458	2419	1469
45°	1919	1953	2016	2018	1978	1481
55°	1455	1484	1523	1501	1476	1301
65°	967	987	1004	984	968	957
75°	480	491	502	483	473	510
85°	92	93	98	98	95	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3203.9	3203.9	3203.9	3203.9	3203.9
2.5°	3178.9	3189.2	3199.9	3204.6	3178.6
5°	3162.2	3168.2	3191.9	3199.3	3172.2
7.5°	3134.8	3143.8	3166.9	3170.2	3144.2
10°	3097.4	3113.5	3128.8	3145.5	3113.8
12.5°	3049.7	3071.4	3097.4	3100.4	3076.4
15°	2996.0	3016.0	3044.4	3062.7	3023.0
17.5°	2935.9	2955.2	2992.0	2995.3	2971.3
20°	2868.8	2892.8	2936.9	2944.6	2901.5
22.5°	2792.7	2825.0	2861.8	2869.1	2837.4
25°	2712.9	2746.3	2791.7	2802.0	2759.6
27.5°	2629.4	2661.5	2712.6	2719.9	2684.2
30°	2540.0	2570.0	2626.1	2638.4	2602.1
32.5°	2449.2	2479.2	2541.3	2551.7	2516.3
35°	2348.4	2385.1	2441.5	2458.5	2418.8
37.5°	2245.6	2281.3	2345.4	2360.7	2318.0
40°	2139.1	2174.4	2237.5	2250.2	2209.2
42.5°	2030.2	2065.6	2133.1	2135.1	2101.0
45°	1919.1	1953.1	2015.9	2017.6	1977.8
47.5°	1806.3	1840.6	1896.7	1890.4	1853.0
50°	1692.1	1724.8	1773.9	1761.2	1727.5
52.5°	1573.9	1605.6	1652.0	1631.3	1599.6
55°	1455.1	1484.5	1523.2	1501.2	1476.4
57.5°	1335.2	1365.0	1394.7	1372.3	1350.9
60°	1214.4	1240.4	1264.8	1242.1	1225.8
62.5°	1091.6	1113.9	1135.0	1113.3	1097.9
65°	967.4	987.1	1004.4	984.4	968.1
67.5°	843.9	860.6	876.6	855.9	838.9
70°	720.4	734.7	749.4	728.0	712.4
72.5°	598.5	611.2	624.2	603.5	589.8
75°	480.0	491.0	501.7	483.4	472.7
77.5°	366.9	376.2	383.5	371.9	361.5
80°	261.7	268.7	273.1	268.4	258.7
82.5°	168.2	173.2	175.6	175.3	168.9
85°	91.5	93.1	97.5	98.5	95.1
87.5°	35.4	37.7	38.7	41.7	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)