

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: P489483

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-30-120-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: P489483  
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-30-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

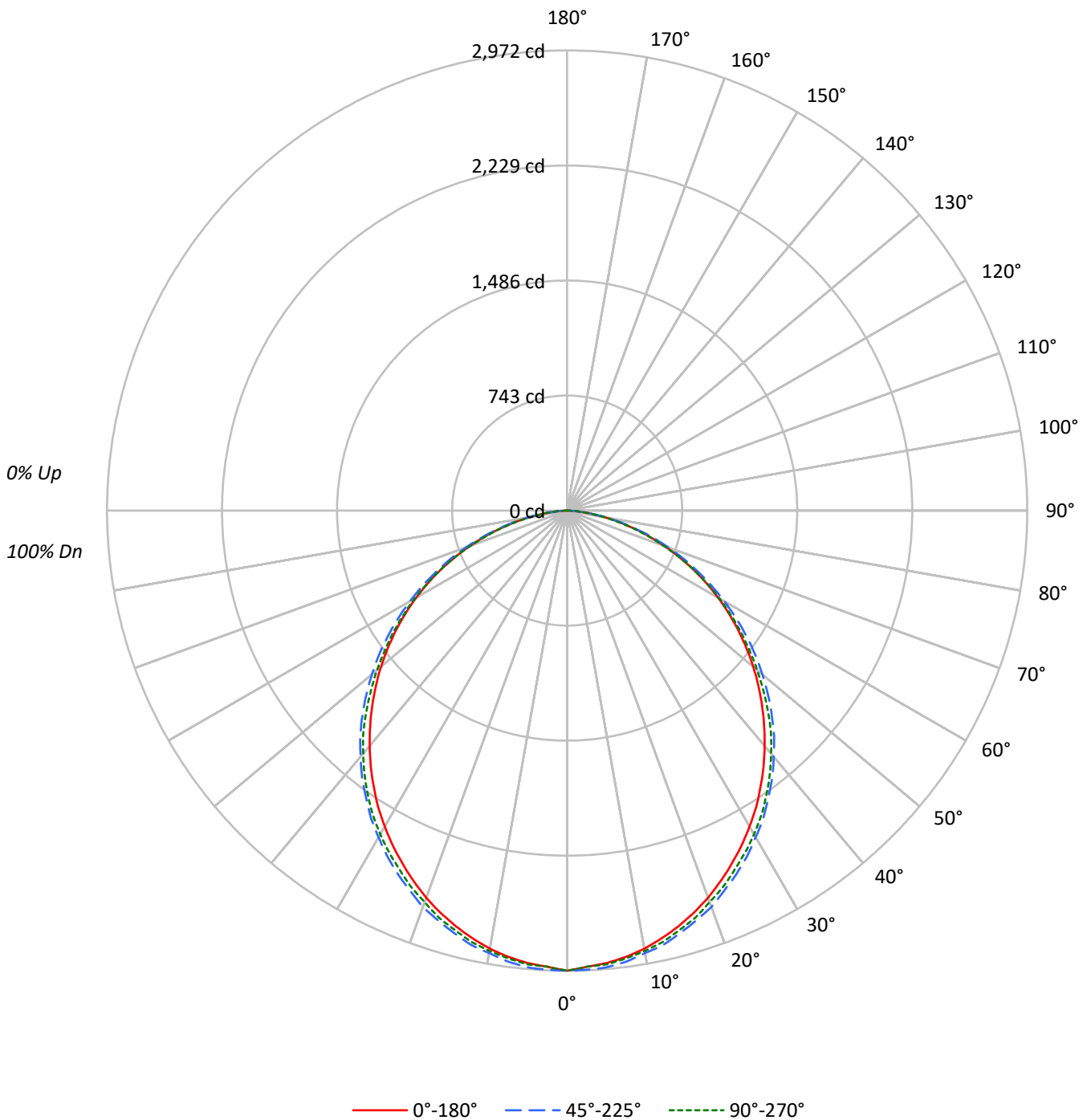
Lumens per Lamp: N/A  
Luminaire Lumens: 7813.4 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3999	3999	3999
5°	3962	3999	3974
10°	3925	3965	3946
15°	3871	3934	3906
20°	3810	3901	3854
25°	3736	3844	3800
30°	3661	3785	3750
35°	3578	3720	3685
40°	3485	3645	3599
45°	3387	3558	3491
50°	3286	3444	3354
55°	3166	3314	3213
60°	3031	3157	3060
65°	2857	2966	2859
70°	2629	2734	2600
75°	2315	2419	2280
80°	1881	1963	1860
85°	1309	1396	1362



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.9	3.6
10°-20°	793.2	10.2
20°-30°	1183.0	15.1
30°-40°	1401.8	17.9
40°-50°	1418.4	18.2
50°-60°	1238.8	15.9
60°-70°	905.3	11.6
70°-80°	481.7	6.2
80°-90°	111.3	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°	2256.0	28.9
0°-40°	3657.9	46.8
0°-60°	6315.1	80.8
0°-90°	7813.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7813.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2972	2972	2972	2972	2972	
5°	2933	2939	2961	2968	2942	278
15°	2779	2798	2824	2841	2804	783
25°	2516	2547	2590	2599	2560	1159
35°	2178	2212	2265	2280	2244	1362
45°	1780	1812	1870	1872	1835	1373
55°	1350	1377	1413	1392	1370	1207
65°	897	916	932	913	898	888
75°	445	456	465	448	438	473
85°	85	86	90	91	88	107
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2971.9	2971.9	2971.9	2971.9	2971.9
2.5°	2948.7	2958.3	2968.2	2972.6	2948.4
5°	2933.2	2938.8	2960.8	2967.6	2942.5
7.5°	2907.8	2916.2	2937.6	2940.7	2916.5
10°	2873.2	2888.0	2902.3	2917.8	2888.3
12.5°	2828.9	2849.0	2873.2	2876.0	2853.7
15°	2779.0	2797.6	2823.9	2841.0	2804.1
17.5°	2723.3	2741.3	2775.3	2778.4	2756.1
20°	2661.1	2683.4	2724.2	2731.3	2691.4
22.5°	2590.5	2620.5	2654.6	2661.4	2632.0
25°	2516.5	2547.4	2589.5	2599.1	2559.8
27.5°	2439.0	2468.8	2516.1	2523.0	2489.8
30°	2356.1	2383.9	2435.9	2447.4	2413.7
32.5°	2271.8	2299.7	2357.3	2366.9	2334.1
35°	2178.3	2212.4	2264.7	2280.5	2243.7
37.5°	2083.0	2116.1	2175.5	2189.8	2150.2
40°	1984.2	2017.0	2075.5	2087.3	2049.2
42.5°	1883.2	1916.1	1978.6	1980.5	1948.9
45°	1780.1	1811.7	1869.9	1871.5	1834.6
47.5°	1675.5	1707.4	1759.4	1753.5	1718.8
50°	1569.6	1599.9	1645.4	1633.7	1602.4
52.5°	1460.0	1489.4	1532.4	1513.2	1483.8
55°	1349.7	1377.0	1412.9	1392.5	1369.5
57.5°	1238.6	1266.1	1293.7	1272.9	1253.1
60°	1126.5	1150.6	1173.2	1152.2	1137.0
62.5°	1012.5	1033.3	1052.8	1032.7	1018.4
65°	897.3	915.6	931.7	913.1	898.0
67.5°	782.8	798.3	813.1	793.9	778.1
70°	668.2	681.5	695.1	675.3	660.8
72.5°	555.2	567.0	579.0	559.8	547.1
75°	445.3	455.5	465.4	448.4	438.5
77.5°	340.3	349.0	355.8	344.9	335.3
80°	242.8	249.3	253.3	249.0	240.0
82.5°	156.1	160.7	162.9	162.6	156.7
85°	84.8	86.4	90.4	91.3	88.2
87.5°	32.8	35.0	35.9	38.7	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)