

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: P489026

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-30-120-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: P489026  
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-24-2-INS-A12125-LD4-5STD-30-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

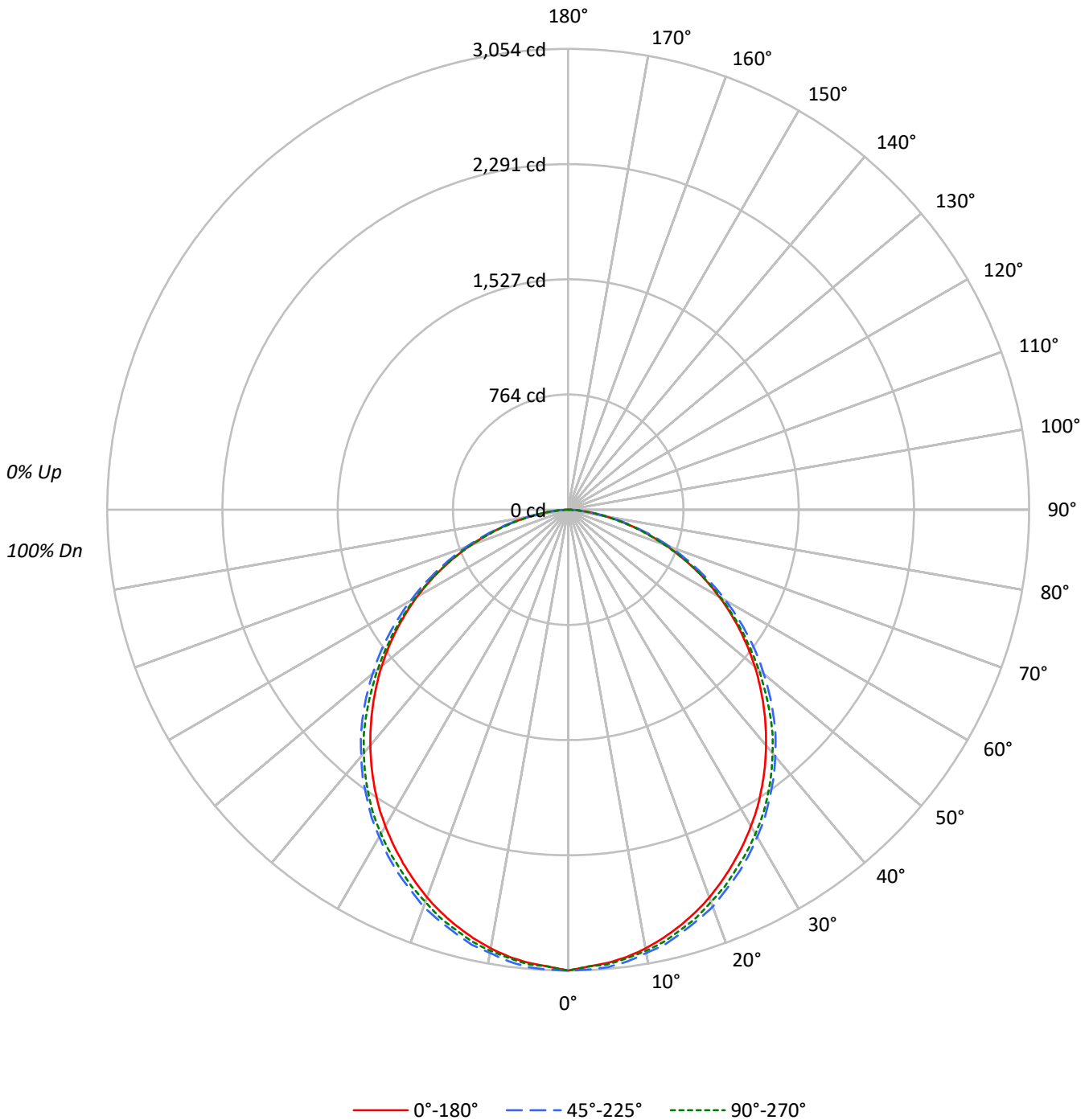
Lumens per Lamp: N/A  
Luminaire Lumens: 8030.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 83.2  
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°	8219	8219	8219
5°	8143	8220	8169
10°	8069	8150	8111
15°	7957	8085	8028
20°	7832	8017	7921
25°	7679	7902	7811
30°	7524	7779	7708
35°	7354	7646	7575
40°	7163	7493	7398
45°	6962	7314	7175
50°	6753	7079	6894
55°	6508	6813	6603
60°	6231	6490	6289
65°	5872	6097	5876
70°	5403	5621	5343
75°	4758	4973	4685
80°	3866	4034	3821
85°	2692	2868	2800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.7	3.6
10°-20°	815.2	10.2
20°-30°	1215.8	15.1
30°-40°	1440.7	17.9
40°-50°	1457.8	18.2
50°-60°	1273.1	15.9
60°-70°	930.4	11.6
70°-80°	495.0	6.2
80°-90°	114.4	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°	2318.6	28.9
0°-40°	3759.3	46.8
0°-60°	6490.2	80.8
0°-90°	8030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8030.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3054	3054	3054	3054	3054	
5°	3014	3020	3043	3050	3024	286
15°	2856	2875	2902	2920	2882	805
25°	2586	2618	2661	2671	2631	1191
35°	2239	2274	2328	2344	2306	1400
45°	1830	1862	1922	1923	1886	1411
55°	1387	1415	1452	1431	1408	1240
65°	922	941	958	938	923	913
75°	458	468	478	461	451	487
85°	87	89	93	94	91	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3054.3	3054.3	3054.3	3054.3	3054.3
2.5°	3030.5	3040.3	3050.5	3055.0	3030.1
5°	3014.5	3020.3	3042.9	3049.9	3024.1
7.5°	2988.5	2997.0	3019.0	3022.2	2997.4
10°	2952.8	2968.1	2982.7	2998.6	2968.4
12.5°	2907.3	2928.0	2952.8	2955.7	2932.8
15°	2856.1	2875.2	2902.2	2919.7	2881.8
17.5°	2798.8	2817.2	2852.3	2855.4	2832.5
20°	2734.8	2757.7	2799.7	2807.1	2766.0
22.5°	2662.3	2693.1	2728.1	2735.1	2704.9
25°	2586.2	2618.0	2661.3	2671.2	2630.8
27.5°	2506.7	2537.2	2585.9	2592.9	2558.8
30°	2421.4	2450.0	2503.5	2515.3	2480.6
32.5°	2334.8	2363.5	2422.6	2432.5	2398.8
35°	2238.7	2273.7	2327.5	2343.7	2305.9
37.5°	2140.7	2174.8	2235.9	2250.5	2209.8
40°	2039.2	2072.9	2133.1	2145.2	2106.0
42.5°	1935.4	1969.2	2033.5	2035.4	2002.9
45°	1829.5	1861.9	1921.8	1923.4	1885.5
47.5°	1721.9	1754.7	1808.2	1802.1	1766.5
50°	1613.1	1644.3	1691.0	1679.0	1646.8
52.5°	1500.4	1530.7	1574.9	1555.2	1524.9
55°	1387.1	1415.1	1452.1	1431.1	1407.5
57.5°	1272.9	1301.2	1329.5	1308.2	1287.9
60°	1157.7	1182.5	1205.8	1184.1	1168.5
62.5°	1040.6	1061.9	1082.0	1061.3	1046.6
65°	922.2	941.0	957.5	938.4	922.9
67.5°	804.5	820.4	835.7	815.9	799.7
70°	686.7	700.4	714.4	694.0	679.1
72.5°	570.6	582.7	595.1	575.4	562.3
75°	457.6	468.1	478.3	460.8	450.6
77.5°	349.7	358.6	365.6	354.5	344.6
80°	249.5	256.2	260.3	255.9	246.6
82.5°	160.4	165.2	167.4	167.1	161.0
85°	87.2	88.8	92.9	93.9	90.7
87.5°	33.7	36.0	36.9	39.8	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)