

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: P488997

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-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: P488997  
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-LD4-4STD-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

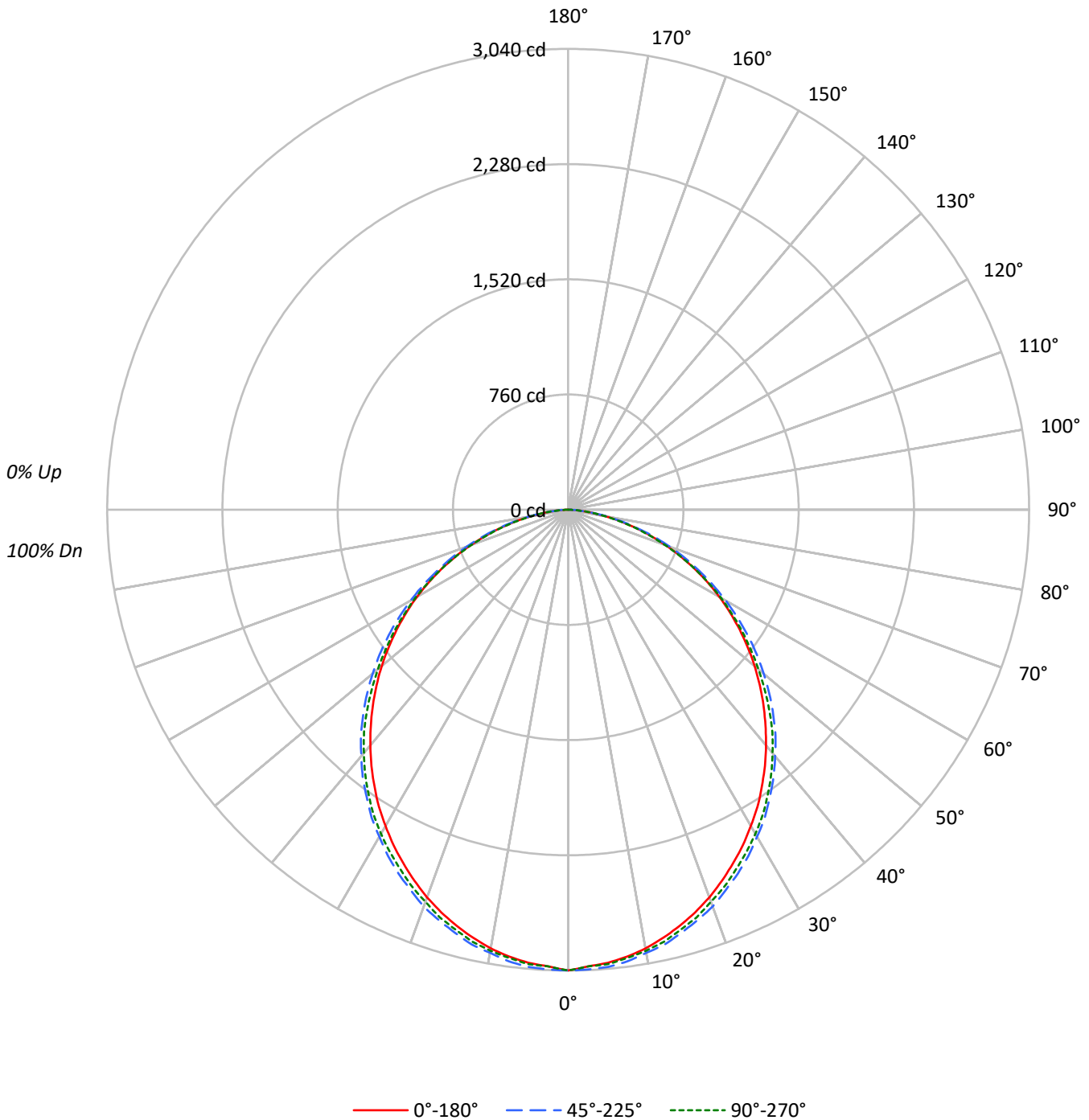
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7991.0 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: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 66.6  
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8179	8179	8179
5°	8104	8180	8129
10°	8029	8111	8072
15°	7918	8046	7990
20°	7794	7978	7883
25°	7642	7864	7773
30°	7487	7741	7670
35°	7318	7609	7538
40°	7129	7457	7362
45°	6929	7278	7140
50°	6720	7045	6861
55°	6476	6779	6571
60°	6201	6458	6258
65°	5843	6067	5848
70°	5377	5593	5317
75°	4735	4949	4662
80°	3848	4014	3803
85°	2680	2856	2788



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.3	3.6
10°-20°	811.2	10.2
20°-30°	1209.9	15.1
30°-40°	1433.7	17.9
40°-50°	1450.7	18.2
50°-60°	1267.0	15.9
60°-70°	925.8	11.6
70°-80°	492.6	6.2
80°-90°	113.9	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°	2307.3	28.9
0°-40°	3741.0	46.8
0°-60°	6458.7	80.8
0°-90°	7991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3040	3040	3040	3040	3040	
5°	3000	3006	3028	3035	3009	284
15°	2842	2861	2888	2906	2868	801
25°	2574	2605	2648	2658	2618	1186
35°	2228	2263	2316	2332	2295	1393
45°	1821	1853	1912	1914	1876	1405
55°	1380	1408	1445	1424	1401	1234
65°	918	936	953	934	918	908
75°	455	466	476	459	448	484
85°	87	88	92	93	90	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3039.5	3039.5	3039.5	3039.5	3039.5
2.5°	3015.7	3025.6	3035.7	3040.1	3015.4
5°	2999.9	3005.6	3028.1	3035.1	3009.4
7.5°	2973.9	2982.5	3004.3	3007.5	2982.8
10°	2938.5	2953.7	2968.2	2984.1	2954.0
12.5°	2893.2	2913.8	2938.5	2941.3	2918.5
15°	2842.2	2861.2	2888.1	2905.5	2867.9
17.5°	2785.2	2803.6	2838.4	2841.6	2818.8
20°	2721.5	2744.3	2786.1	2793.4	2752.6
22.5°	2649.3	2680.1	2714.9	2721.9	2691.8
25°	2573.7	2605.3	2648.4	2658.2	2618.0
27.5°	2494.5	2524.9	2573.3	2580.3	2546.4
30°	2409.6	2438.1	2491.3	2503.0	2468.5
32.5°	2323.5	2352.0	2410.9	2420.7	2387.1
35°	2227.8	2262.7	2316.2	2332.3	2294.7
37.5°	2130.3	2164.2	2225.0	2239.6	2199.0
40°	2029.3	2062.9	2122.7	2134.7	2095.8
42.5°	1926.0	1959.6	2023.6	2025.5	1993.2
45°	1820.6	1852.9	1912.4	1914.0	1876.3
47.5°	1713.6	1746.2	1799.4	1793.4	1757.9
50°	1605.2	1636.3	1682.8	1670.8	1638.8
52.5°	1493.1	1523.2	1567.2	1547.6	1517.5
55°	1380.4	1408.3	1445.0	1424.1	1400.7
57.5°	1266.7	1294.9	1323.1	1301.9	1281.6
60°	1152.1	1176.8	1199.9	1178.4	1162.8
62.5°	1035.5	1056.8	1076.7	1056.1	1041.6
65°	917.7	936.4	952.9	933.9	918.4
67.5°	800.6	816.4	831.6	812.0	795.8
70°	683.4	697.0	710.9	690.7	675.8
72.5°	567.8	579.8	592.2	572.6	559.6
75°	455.4	465.8	476.0	458.6	448.4
77.5°	348.0	356.9	363.9	352.8	343.0
80°	248.3	254.9	259.0	254.6	245.4
82.5°	159.6	164.4	166.6	166.3	160.2
85°	86.8	88.4	92.5	93.4	90.3
87.5°	33.6	35.8	36.7	39.6	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)