

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: P488989

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4STD-27-120-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: P488989  
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-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

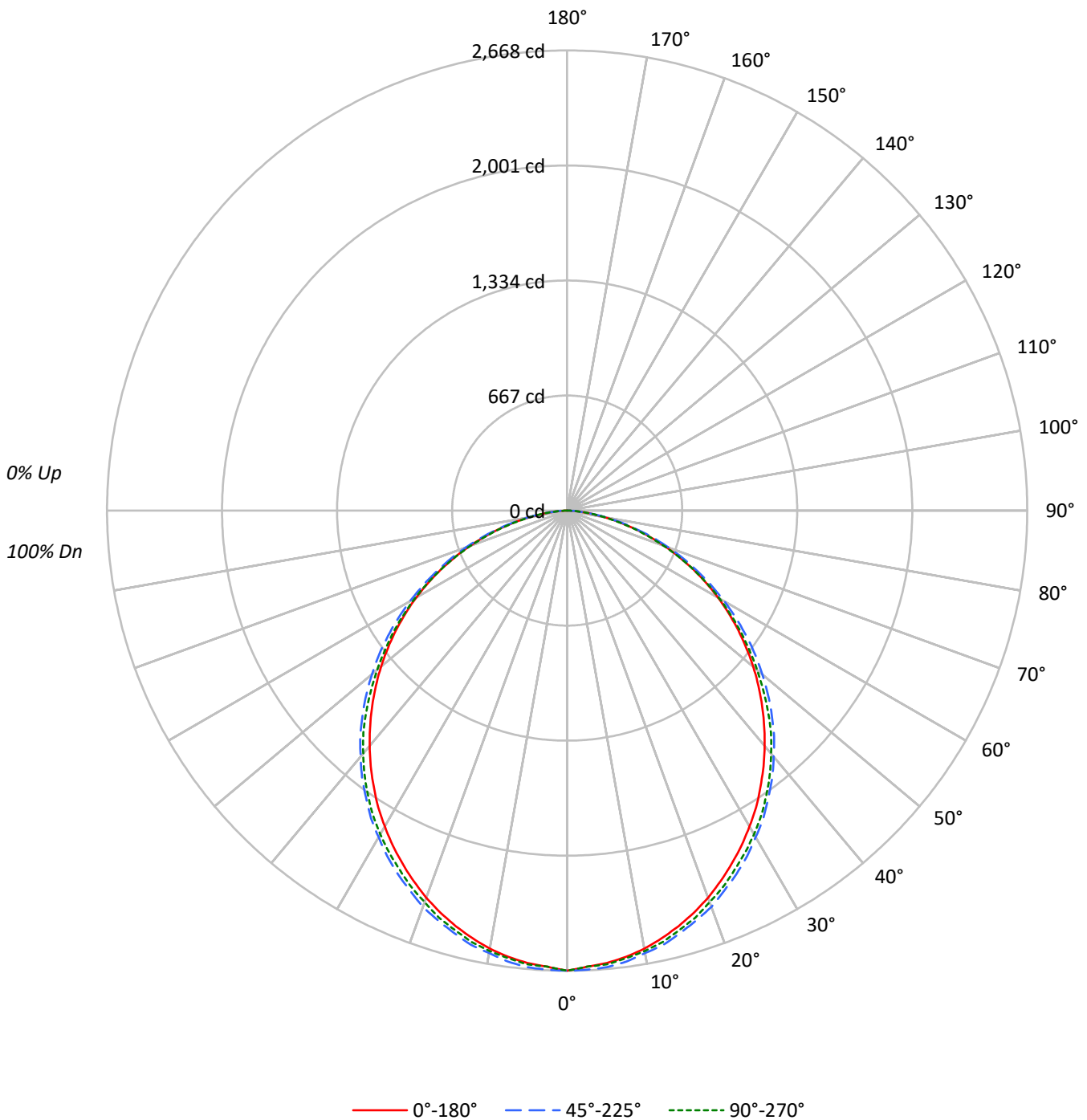
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7013.6 lumens  
Efficiency: N/A  
Efficacy: 105.3 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	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°	7179	7179	7179
5°	7112	7179	7135
10°	7047	7119	7085
15°	6950	7062	7012
20°	6840	7003	6918
25°	6707	6902	6823
30°	6572	6794	6732
35°	6423	6678	6616
40°	6257	6545	6461
45°	6081	6388	6267
50°	5898	6183	6022
55°	5684	5950	5768
60°	5442	5668	5493
65°	5129	5325	5132
70°	4719	4910	4666
75°	4156	4344	4092
80°	3377	3524	3338
85°	2353	2507	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.2	3.6
10°-20°	712.0	10.2
20°-30°	1061.9	15.1
30°-40°	1258.3	17.9
40°-50°	1273.2	18.2
50°-60°	1112.0	15.9
60°-70°	812.6	11.6
70°-80°	432.4	6.2
80°-90°	99.9	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°	2025.1	28.9
0°-40°	3283.5	46.8
0°-60°	5668.7	80.8
0°-90°	7013.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7013.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2633	2638	2658	2664	2641	250
15°	2495	2511	2535	2550	2517	703
25°	2259	2287	2324	2333	2298	1041
35°	1955	1986	2033	2047	2014	1223
45°	1598	1626	1678	1680	1647	1233
55°	1212	1236	1268	1250	1229	1083
65°	806	822	836	820	806	797
75°	400	409	418	402	394	425
85°	76	78	81	82	79	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	2646.9	2655.5	2664.4	2668.3	2646.6
5°	2633.0	2638.0	2657.7	2663.8	2641.3
7.5°	2610.2	2617.7	2636.9	2639.7	2618.0
10°	2579.1	2592.4	2605.2	2619.1	2592.7
12.5°	2539.3	2557.4	2579.1	2581.6	2561.5
15°	2494.6	2511.2	2534.9	2550.2	2517.1
17.5°	2444.5	2460.7	2491.2	2494.0	2474.0
20°	2388.7	2408.7	2445.4	2451.8	2415.9
22.5°	2325.3	2352.3	2382.8	2388.9	2362.5
25°	2258.9	2286.7	2324.5	2333.1	2297.8
27.5°	2189.4	2216.1	2258.6	2264.7	2235.0
30°	2114.9	2139.9	2186.6	2196.9	2166.6
32.5°	2039.3	2064.3	2116.0	2124.6	2095.2
35°	1955.3	1985.9	2032.9	2047.1	2014.0
37.5°	1869.7	1899.5	1952.8	1965.6	1930.1
40°	1781.1	1810.5	1863.1	1873.6	1839.4
42.5°	1690.5	1719.9	1776.1	1777.7	1749.4
45°	1597.9	1626.3	1678.5	1679.9	1646.8
47.5°	1504.0	1532.6	1579.3	1574.0	1542.9
50°	1408.9	1436.1	1477.0	1466.4	1438.4
52.5°	1310.5	1336.9	1375.6	1358.3	1331.9
55°	1211.6	1236.0	1268.3	1249.9	1229.4
57.5°	1111.8	1136.5	1161.3	1142.6	1124.8
60°	1011.2	1032.8	1053.1	1034.2	1020.6
62.5°	908.9	927.5	945.0	926.9	914.2
65°	805.5	821.9	836.3	819.7	806.0
67.5°	702.6	716.5	729.9	712.7	698.5
70°	599.8	611.8	624.0	606.2	593.1
72.5°	498.4	508.9	519.8	502.5	491.1
75°	399.7	408.9	417.8	402.5	393.6
77.5°	305.5	313.2	319.4	309.6	301.0
80°	217.9	223.7	227.4	223.5	215.4
82.5°	140.1	144.3	146.2	145.9	140.6
85°	76.2	77.5	81.2	82.0	79.2
87.5°	29.5	31.4	32.2	34.7	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)