

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: P488999

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-20-120-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: P488999  
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-LD4-5HI-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

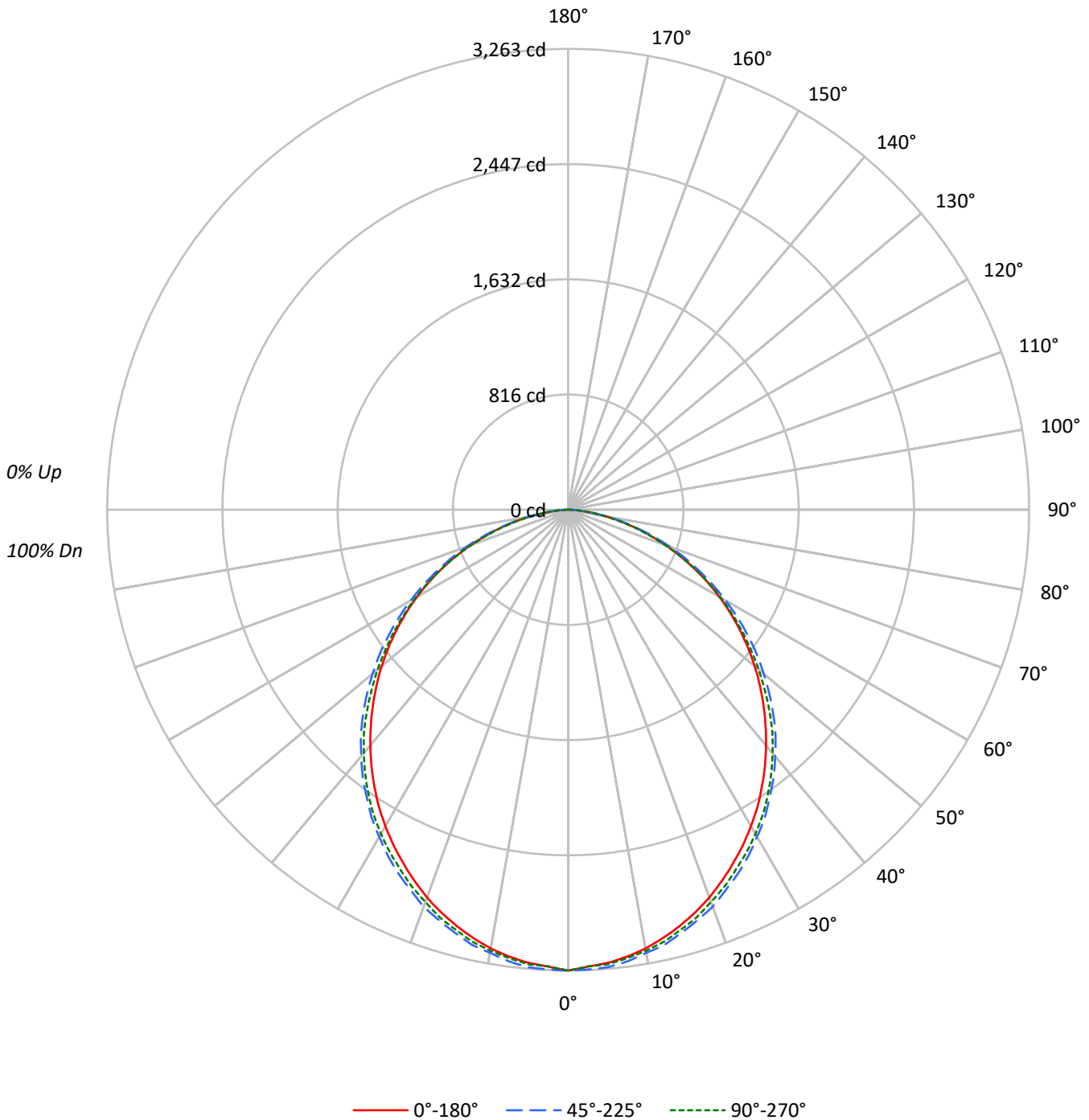
Lumens per Lamp: N/A  
Luminaire Lumens: 8578.9 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 108  
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°	8781	8781	8781
5°	8700	8782	8727
10°	8620	8707	8666
15°	8501	8638	8577
20°	8367	8566	8462
25°	8204	8442	8345
30°	8038	8311	8235
35°	7857	8169	8093
40°	7653	8005	7904
45°	7438	7813	7666
50°	7214	7563	7366
55°	6953	7278	7055
60°	6656	6933	6719
65°	6274	6514	6278
70°	5773	6006	5708
75°	5083	5313	5005
80°	4130	4310	4083
85°	2878	3066	2992



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.3	3.6
10°-20°	870.9	10.2
20°-30°	1298.9	15.1
30°-40°	1539.2	17.9
40°-50°	1557.4	18.2
50°-60°	1360.2	15.9
60°-70°	994.0	11.6
70°-80°	528.9	6.2
80°-90°	122.2	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°	2477.1	28.9
0°-40°	4016.2	46.8
0°-60°	6933.8	80.8
0°-90°	8578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8578.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3263	3263	3263	3263	3263	
5°	3221	3227	3251	3258	3231	305
15°	3051	3072	3101	3119	3079	860
25°	2763	2797	2843	2854	2811	1273
35°	2392	2429	2487	2504	2464	1496
45°	1954	1989	2053	2055	2014	1508
55°	1482	1512	1551	1529	1504	1325
65°	985	1005	1023	1003	986	975
75°	489	500	511	492	481	520
85°	93	95	99	100	97	118
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3263.1	3263.1	3263.1	3263.1	3263.1
2.5°	3237.6	3248.1	3259.0	3263.8	3237.3
5°	3220.6	3226.7	3250.9	3258.3	3230.8
7.5°	3192.7	3201.9	3225.4	3228.8	3202.3
10°	3154.7	3171.0	3186.6	3203.6	3171.3
12.5°	3106.0	3128.1	3154.7	3157.7	3133.2
15°	3051.3	3071.7	3100.6	3119.3	3078.8
17.5°	2990.1	3009.8	3047.2	3050.6	3026.1
20°	2921.8	2946.2	2991.1	2998.9	2955.1
22.5°	2844.3	2877.2	2914.6	2922.1	2889.8
25°	2763.0	2797.0	2843.2	2853.8	2810.6
27.5°	2678.0	2710.6	2762.7	2770.1	2733.8
30°	2586.9	2617.5	2674.6	2687.2	2650.1
32.5°	2494.4	2525.0	2588.3	2598.8	2562.8
35°	2391.7	2429.1	2486.6	2503.9	2463.5
37.5°	2287.0	2323.4	2388.7	2404.3	2360.8
40°	2178.6	2214.6	2278.9	2291.8	2250.0
42.5°	2067.7	2103.8	2172.5	2174.5	2139.8
45°	1954.5	1989.2	2053.1	2054.8	2014.4
47.5°	1839.6	1874.6	1931.8	1925.3	1887.2
50°	1723.3	1756.7	1806.6	1793.7	1759.4
52.5°	1603.0	1635.3	1682.6	1661.5	1629.2
55°	1482.0	1511.9	1551.3	1528.9	1503.7
57.5°	1359.9	1390.2	1420.4	1397.6	1375.9
60°	1236.8	1263.4	1288.2	1265.1	1248.4
62.5°	1111.7	1134.5	1155.9	1133.8	1118.2
65°	985.3	1005.3	1023.0	1002.6	985.9
67.5°	859.5	876.5	892.8	871.7	854.4
70°	733.7	748.3	763.3	741.5	725.5
72.5°	609.6	622.5	635.8	614.7	600.7
75°	488.9	500.1	511.0	492.3	481.4
77.5°	373.6	383.2	390.6	378.7	368.2
80°	266.5	273.7	278.1	273.3	263.5
82.5°	171.3	176.4	178.8	178.5	172.0
85°	93.2	94.9	99.3	100.3	96.9
87.5°	36.0	38.4	39.4	42.5	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)