

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: P488905

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2LO-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: P488905  
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-LD4-2LO-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

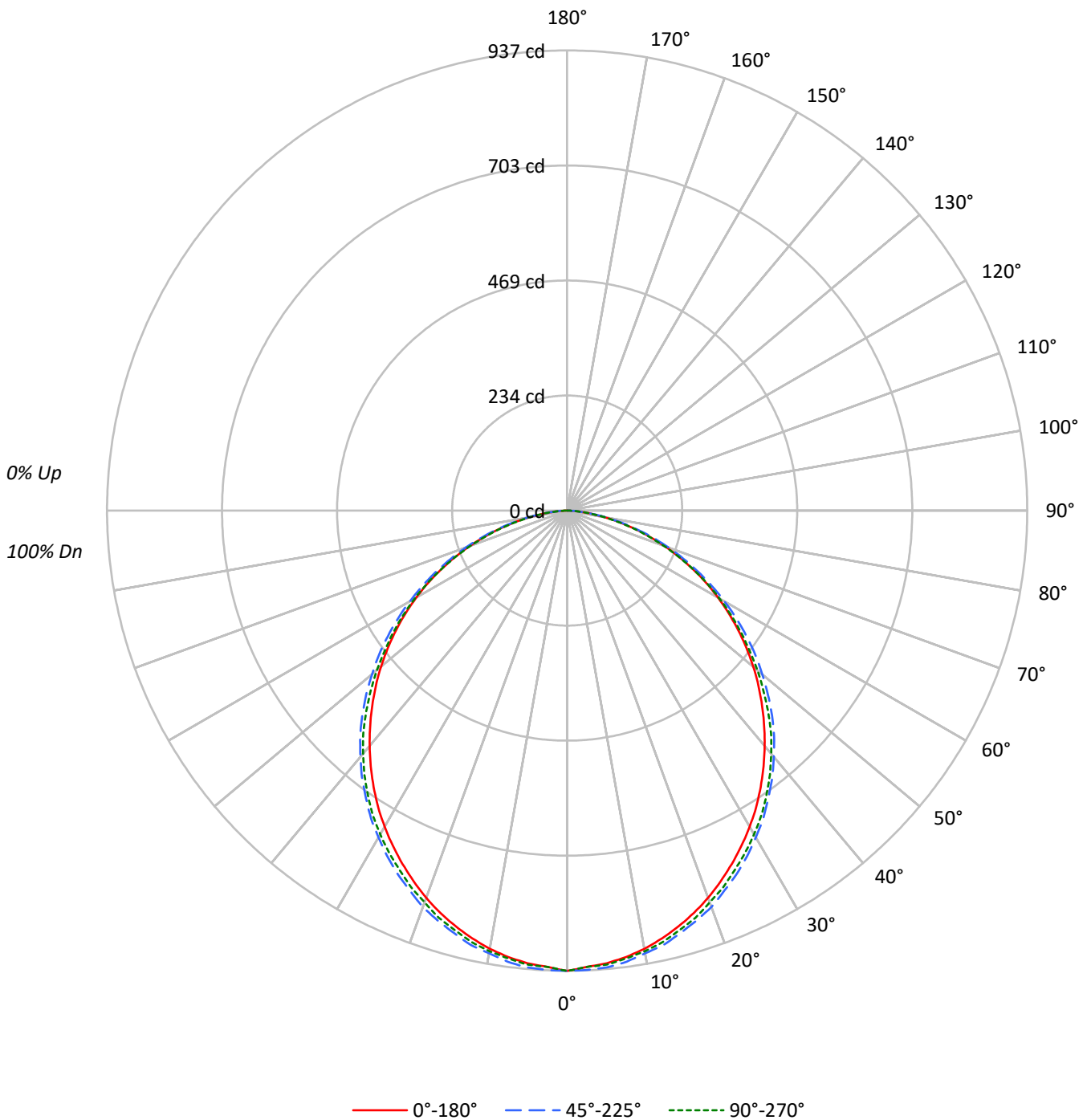
Lumens per Lamp: N/A  
Luminaire Lumens: 2464.2 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	2522	2522	2522
5°	2499	2522	2507
10°	2476	2501	2489
15°	2442	2481	2464
20°	2403	2460	2431
25°	2356	2425	2397
30°	2309	2387	2365
35°	2257	2346	2325
40°	2198	2299	2270
45°	2136	2244	2202
50°	2072	2172	2116
55°	1997	2091	2026
60°	1912	1991	1930
65°	1802	1871	1803
70°	1658	1725	1640
75°	1460	1526	1438
80°	1187	1238	1173
85°	827	880	858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.3	3.6
10°-20°	250.2	10.2
20°-30°	373.1	15.1
30°-40°	442.1	17.9
40°-50°	447.3	18.2
50°-60°	390.7	15.9
60°-70°	285.5	11.6
70°-80°	151.9	6.2
80°-90°	35.1	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°	711.5	28.9
0°-40°	1153.6	46.8
0°-60°	1991.7	80.8
0°-90°	2464.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	925	927	934	936	928	88
15°	876	882	891	896	884	247
25°	794	803	817	820	807	366
35°	687	698	714	719	708	430
45°	561	571	590	590	579	433
55°	426	434	446	439	432	381
65°	283	289	294	288	283	280
75°	140	144	147	141	138	149
85°	27	27	28	29	28	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	937.3	937.3	937.3	937.3	937.3
2.5°	930.0	933.0	936.1	937.5	929.9
5°	925.1	926.8	933.8	935.9	928.0
7.5°	917.1	919.7	926.5	927.4	919.8
10°	906.1	910.8	915.3	920.2	910.9
12.5°	892.2	898.5	906.1	907.0	900.0
15°	876.5	882.3	890.6	896.0	884.4
17.5°	858.9	864.5	875.3	876.3	869.2
20°	839.2	846.3	859.2	861.4	848.8
22.5°	817.0	826.5	837.2	839.3	830.1
25°	793.6	803.4	816.7	819.7	807.3
27.5°	769.2	778.6	793.5	795.7	785.2
30°	743.1	751.8	768.3	771.9	761.2
32.5°	716.5	725.3	743.4	746.5	736.1
35°	687.0	697.7	714.2	719.2	707.6
37.5°	656.9	667.4	686.1	690.6	678.1
40°	625.8	636.1	654.6	658.3	646.3
42.5°	593.9	604.3	624.0	624.6	614.6
45°	561.4	571.4	589.7	590.2	578.6
47.5°	528.4	538.5	554.9	553.0	542.1
50°	495.0	504.6	518.9	515.2	505.4
52.5°	460.4	469.7	483.3	477.2	468.0
55°	425.7	434.3	445.6	439.2	431.9
57.5°	390.6	399.3	408.0	401.5	395.2
60°	355.3	362.9	370.0	363.4	358.6
62.5°	319.3	325.9	332.0	325.7	321.2
65°	283.0	288.8	293.8	288.0	283.2
67.5°	246.9	251.8	256.4	250.4	245.4
70°	210.7	214.9	219.2	213.0	208.4
72.5°	175.1	178.8	182.6	176.6	172.6
75°	140.4	143.7	146.8	141.4	138.3
77.5°	107.3	110.1	112.2	108.8	105.8
80°	76.6	78.6	79.9	78.5	75.7
82.5°	49.2	50.7	51.4	51.3	49.4
85°	26.8	27.2	28.5	28.8	27.8
87.5°	10.4	11.0	11.3	12.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)