

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: P488915

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-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: P488915  
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-LD4-2STD-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

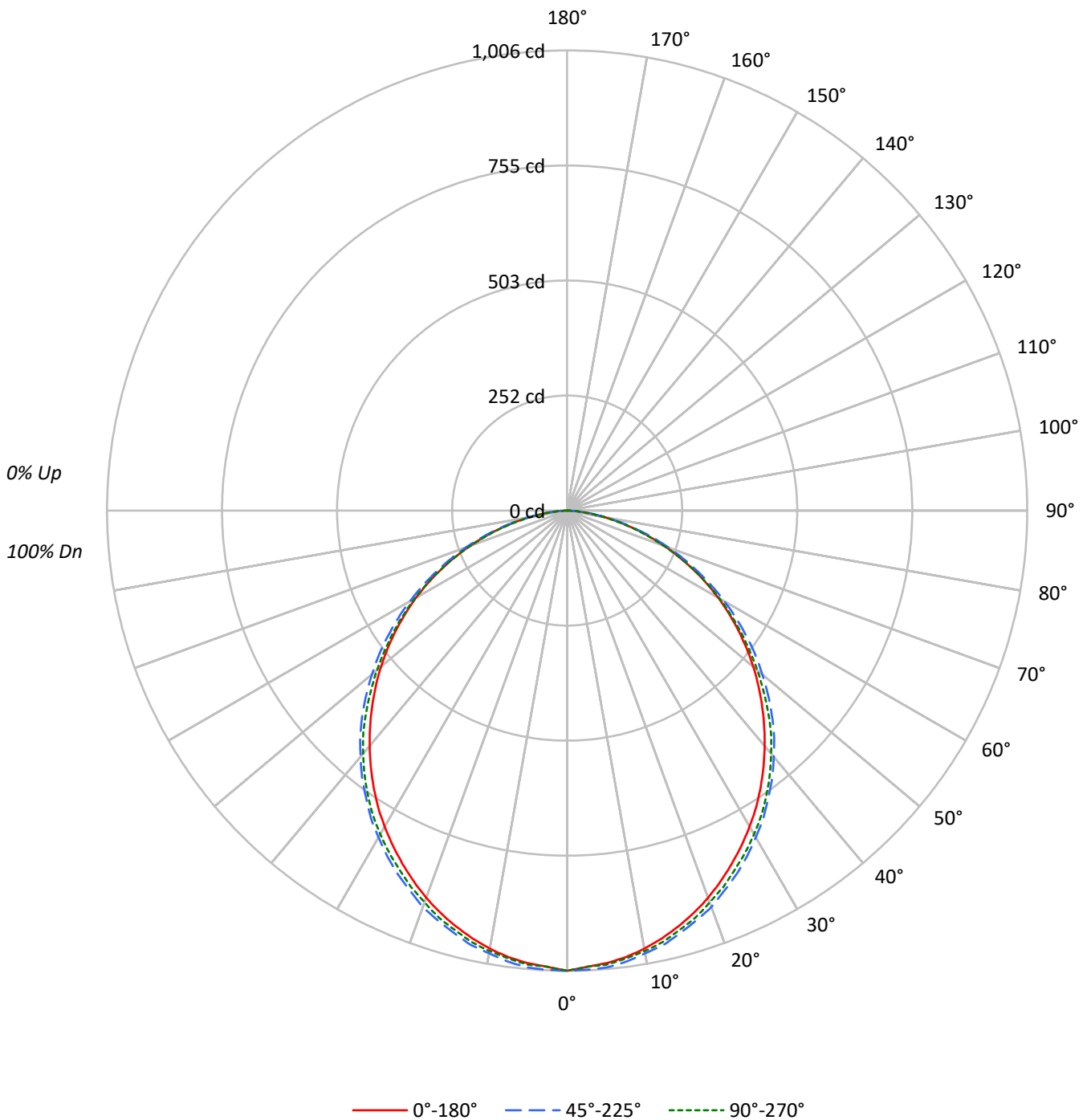
Lumens per Lamp: N/A  
Luminaire Lumens: 2645.2 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	2707	2707	2707
5°	2682	2708	2691
10°	2658	2685	2672
15°	2621	2663	2645
20°	2580	2641	2609
25°	2529	2603	2573
30°	2478	2563	2539
35°	2423	2519	2495
40°	2360	2468	2437
45°	2294	2409	2364
50°	2225	2332	2271
55°	2144	2244	2175
60°	2053	2138	2072
65°	1934	2008	1936
70°	1780	1851	1760
75°	1567	1639	1543
80°	1274	1328	1258
85°	886	945	923



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	3.6
10°-20°	268.5	10.2
20°-30°	400.5	15.1
30°-40°	474.6	17.9
40°-50°	480.2	18.2
50°-60°	419.4	15.9
60°-70°	306.5	11.6
70°-80°	163.1	6.2
80°-90°	37.7	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°	763.8	28.9
0°-40°	1238.4	46.8
0°-60°	2138.0	80.8
0°-90°	2645.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	993	995	1002	1005	996	94
15°	941	947	956	962	949	265
25°	852	862	877	880	867	392
35°	738	749	767	772	760	461
45°	603	613	633	634	621	465
55°	457	466	478	471	464	408
65°	304	310	315	309	304	301
75°	151	154	158	152	148	160
85°	29	29	31	31	30	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	998.3	1001.5	1004.9	1006.3	998.2
5°	993.0	994.9	1002.4	1004.7	996.2
7.5°	984.4	987.3	994.5	995.6	987.4
10°	972.7	977.7	982.6	987.8	977.8
12.5°	957.7	964.5	972.7	973.6	966.1
15°	940.8	947.1	956.0	961.8	949.3
17.5°	922.0	928.0	939.6	940.6	933.1
20°	900.9	908.4	922.3	924.7	911.2
22.5°	877.0	887.2	898.7	901.0	891.0
25°	851.9	862.4	876.7	879.9	866.6
27.5°	825.7	835.8	851.8	854.1	842.9
30°	797.6	807.1	824.7	828.6	817.1
32.5°	769.1	778.6	798.1	801.3	790.2
35°	737.5	749.0	766.7	772.1	759.6
37.5°	705.2	716.4	736.5	741.3	727.9
40°	671.7	682.9	702.7	706.6	693.8
42.5°	637.6	648.7	669.9	670.5	659.8
45°	602.7	613.3	633.1	633.6	621.1
47.5°	567.2	578.0	595.6	593.6	581.9
50°	531.4	541.6	557.1	553.1	542.5
52.5°	494.3	504.2	518.8	512.3	502.3
55°	456.9	466.2	478.3	471.4	463.7
57.5°	419.3	428.6	438.0	430.9	424.2
60°	381.4	389.5	397.2	390.1	384.9
62.5°	342.8	349.8	356.4	349.6	344.8
65°	303.8	310.0	315.4	309.1	304.0
67.5°	265.0	270.2	275.3	268.8	263.4
70°	226.2	230.7	235.3	228.6	223.7
72.5°	188.0	191.9	196.0	189.5	185.2
75°	150.7	154.2	157.6	151.8	148.4
77.5°	115.2	118.1	120.4	116.8	113.5
80°	82.2	84.4	85.7	84.3	81.2
82.5°	52.8	54.4	55.1	55.0	53.0
85°	28.7	29.2	30.6	30.9	29.9
87.5°	11.1	11.8	12.2	13.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)