

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: P488916

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-27-120-EDD-90**

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: P488916  
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-27-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

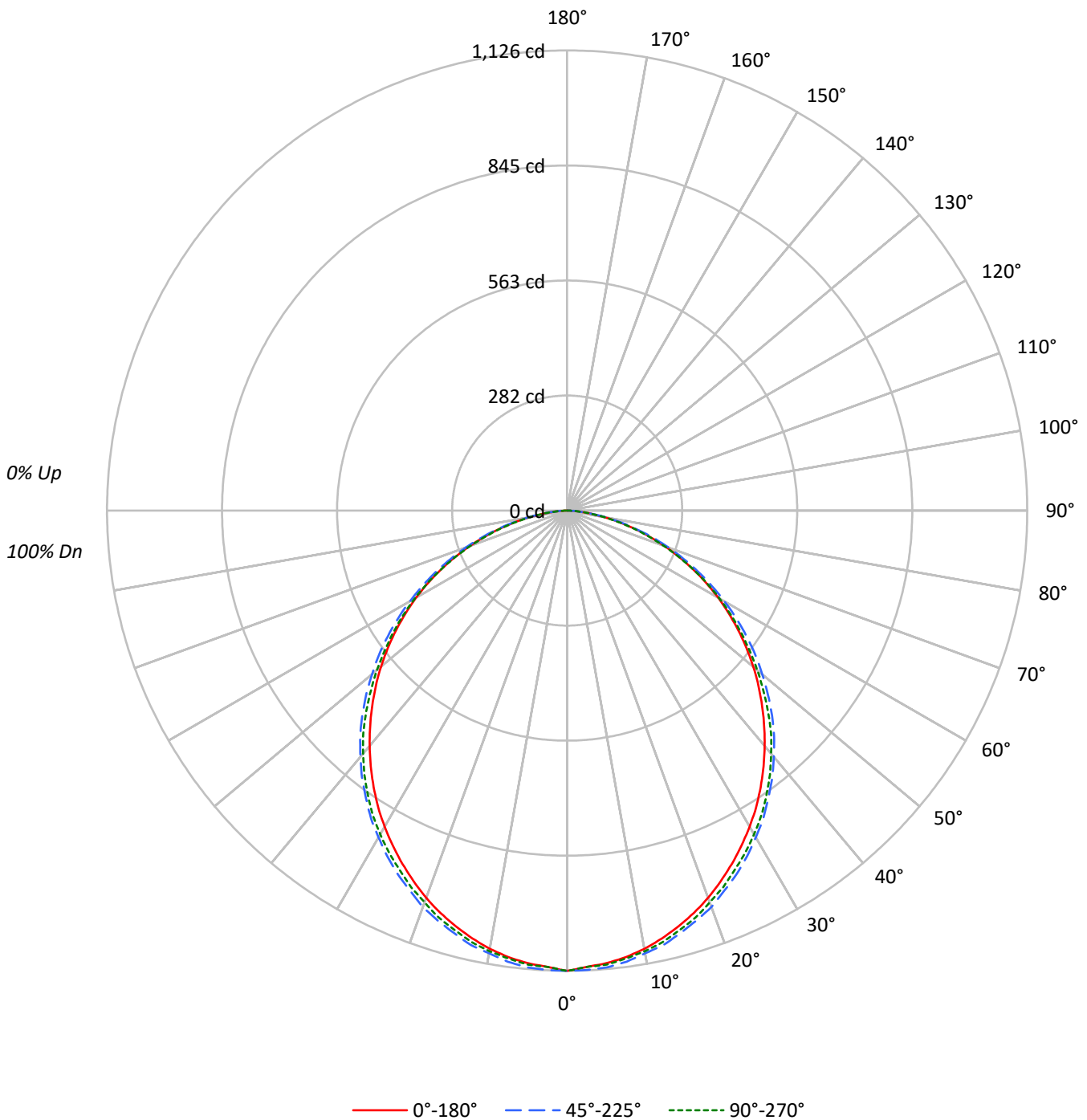
Lumens per Lamp: N/A  
Luminaire Lumens: 2961.1 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	3031	3031	3031
5°	3003	3031	3012
10°	2975	3005	2991
15°	2934	2981	2961
20°	2888	2956	2921
25°	2832	2914	2880
30°	2774	2869	2842
35°	2712	2820	2793
40°	2642	2763	2728
45°	2567	2697	2646
50°	2490	2611	2542
55°	2400	2512	2435
60°	2298	2393	2319
65°	2166	2248	2167
70°	1992	2072	1970
75°	1754	1834	1728
80°	1426	1488	1409
85°	994	1059	1031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	3.6
10°-20°	300.6	10.2
20°-30°	448.3	15.1
30°-40°	531.3	17.9
40°-50°	537.6	18.2
50°-60°	469.5	15.9
60°-70°	343.1	11.6
70°-80°	182.5	6.2
80°-90°	42.2	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°	855.0	28.9
0°-40°	1386.3	46.8
0°-60°	2393.3	80.8
0°-90°	2961.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1112	1114	1122	1125	1115	105
15°	1053	1060	1070	1077	1063	297
25°	954	965	981	985	970	439
35°	826	838	858	864	850	516
45°	675	687	709	709	695	520
55°	512	522	536	528	519	457
65°	340	347	353	346	340	337
75°	169	173	176	170	166	179
85°	32	33	34	35	33	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1126.3	1126.3	1126.3	1126.3	1126.3
2.5°	1117.5	1121.1	1124.9	1126.5	1117.4
5°	1111.6	1113.7	1122.1	1124.7	1115.1
7.5°	1102.0	1105.2	1113.3	1114.4	1105.3
10°	1088.9	1094.5	1099.9	1105.8	1094.6
12.5°	1072.1	1079.7	1088.9	1089.9	1081.5
15°	1053.2	1060.2	1070.2	1076.7	1062.7
17.5°	1032.1	1038.9	1051.8	1053.0	1044.5
20°	1008.5	1016.9	1032.4	1035.1	1020.0
22.5°	981.7	993.1	1006.0	1008.6	997.4
25°	953.7	965.4	981.4	985.0	970.1
27.5°	924.3	935.6	953.6	956.1	943.6
30°	892.9	903.5	923.2	927.5	914.7
32.5°	861.0	871.5	893.4	897.0	884.6
35°	825.5	838.4	858.3	864.3	850.3
37.5°	789.4	801.9	824.5	829.9	814.9
40°	752.0	764.4	786.6	791.0	776.6
42.5°	713.7	726.1	749.8	750.6	738.6
45°	674.6	686.6	708.7	709.2	695.3
47.5°	635.0	647.1	666.8	664.5	651.4
50°	594.8	606.3	623.6	619.1	607.3
52.5°	553.3	564.4	580.8	573.5	562.3
55°	511.5	521.8	535.5	527.7	519.0
57.5°	469.4	479.8	490.3	482.4	474.9
60°	426.9	436.1	444.6	436.6	430.9
62.5°	383.7	391.6	399.0	391.4	386.0
65°	340.1	347.0	353.1	346.1	340.3
67.5°	296.7	302.5	308.2	300.9	294.9
70°	253.2	258.3	263.4	255.9	250.4
72.5°	210.4	214.9	219.4	212.2	207.4
75°	168.7	172.6	176.4	169.9	166.2
77.5°	129.0	132.3	134.8	130.7	127.1
80°	92.0	94.5	96.0	94.3	90.9
82.5°	59.1	60.9	61.7	61.6	59.4
85°	32.2	32.7	34.3	34.6	33.4
87.5°	12.4	13.3	13.6	14.7	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)