

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: P489420

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-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: P489420  
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-24-4-INS-A12125-LD4-1STD-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

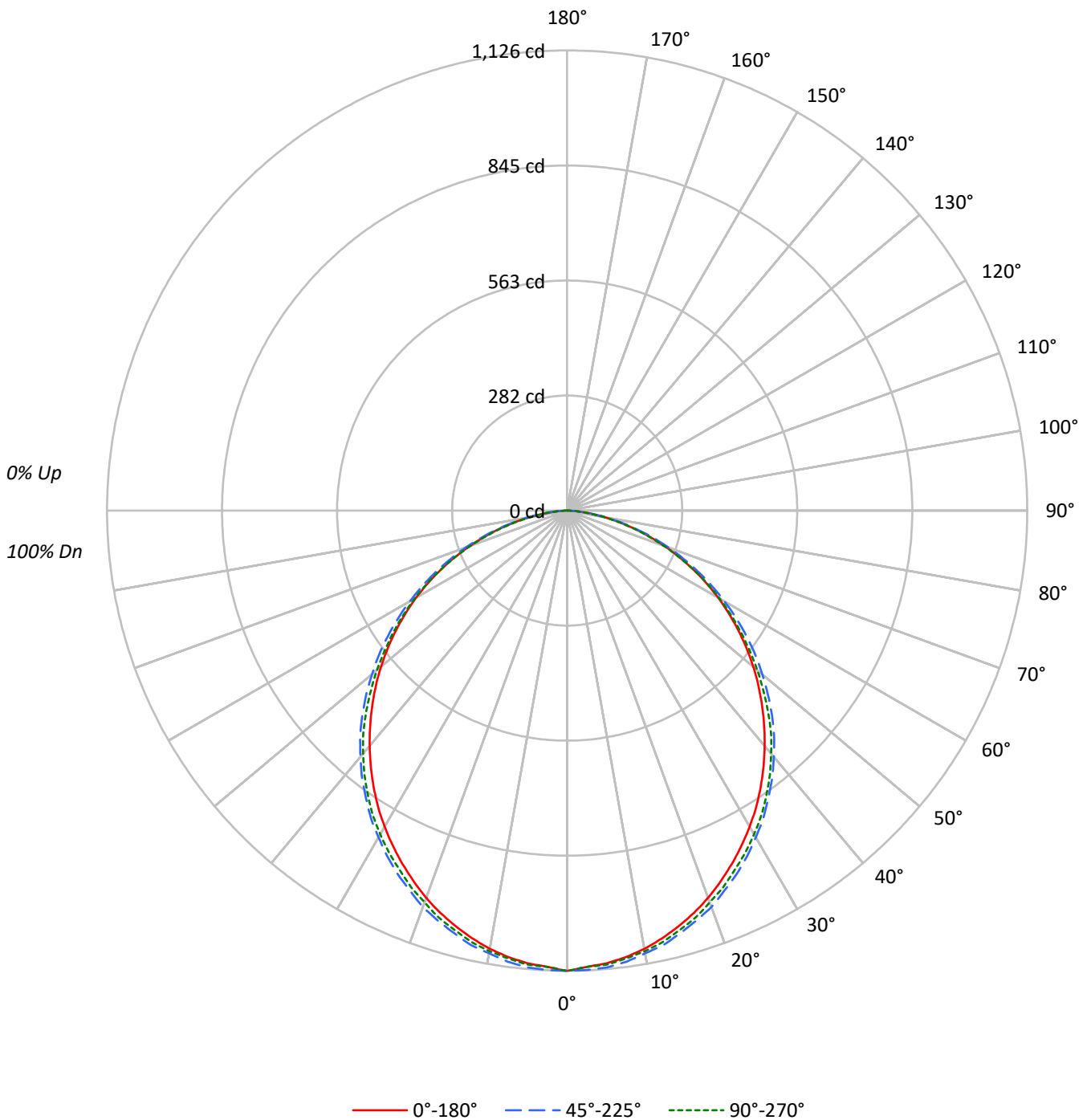
Lumens per Lamp: N/A  
Luminaire Lumens: 2961.2 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1515	1515	1515
5°	1501	1516	1506
10°	1488	1503	1496
15°	1467	1491	1480
20°	1444	1478	1460
25°	1416	1457	1440
30°	1387	1434	1421
35°	1356	1410	1397
40°	1321	1382	1364
45°	1284	1349	1323
50°	1245	1305	1271
55°	1200	1256	1217
60°	1149	1196	1160
65°	1083	1124	1083
70°	996	1037	985
75°	878	917	864
80°	713	744	704
85°	497	530	516



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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°	182.6	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°	2393.4	80.8
0°-90°	2961.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.2	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	1121.2	1124.9	1126.6	1117.4
5°	1111.7	1113.8	1122.1	1124.7	1115.2
7.5°	1102.0	1105.2	1113.3	1114.5	1105.3
10°	1088.9	1094.5	1099.9	1105.8	1094.7
12.5°	1072.1	1079.7	1088.9	1090.0	1081.5
15°	1053.2	1060.3	1070.2	1076.7	1062.7
17.5°	1032.1	1038.9	1051.8	1053.0	1044.5
20°	1008.5	1017.0	1032.5	1035.2	1020.0
22.5°	981.8	993.1	1006.1	1008.6	997.5
25°	953.7	965.4	981.4	985.0	970.1
27.5°	924.4	935.6	953.6	956.2	943.6
30°	892.9	903.5	923.2	927.5	914.8
32.5°	861.0	871.6	893.4	897.0	884.6
35°	825.6	838.5	858.3	864.3	850.3
37.5°	789.4	802.0	824.5	829.9	814.9
40°	752.0	764.4	786.6	791.1	776.6
42.5°	713.7	726.2	749.9	750.6	738.6
45°	674.7	686.6	708.7	709.3	695.3
47.5°	635.0	647.1	666.8	664.6	651.4
50°	594.9	606.4	623.6	619.1	607.3
52.5°	553.3	564.5	580.8	573.5	562.3
55°	511.5	521.9	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	436.7	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	263.5	255.9	250.4
72.5°	210.4	214.9	219.4	212.2	207.4
75°	168.8	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	94.4	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)