

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: P489419

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-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: P489419  
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-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

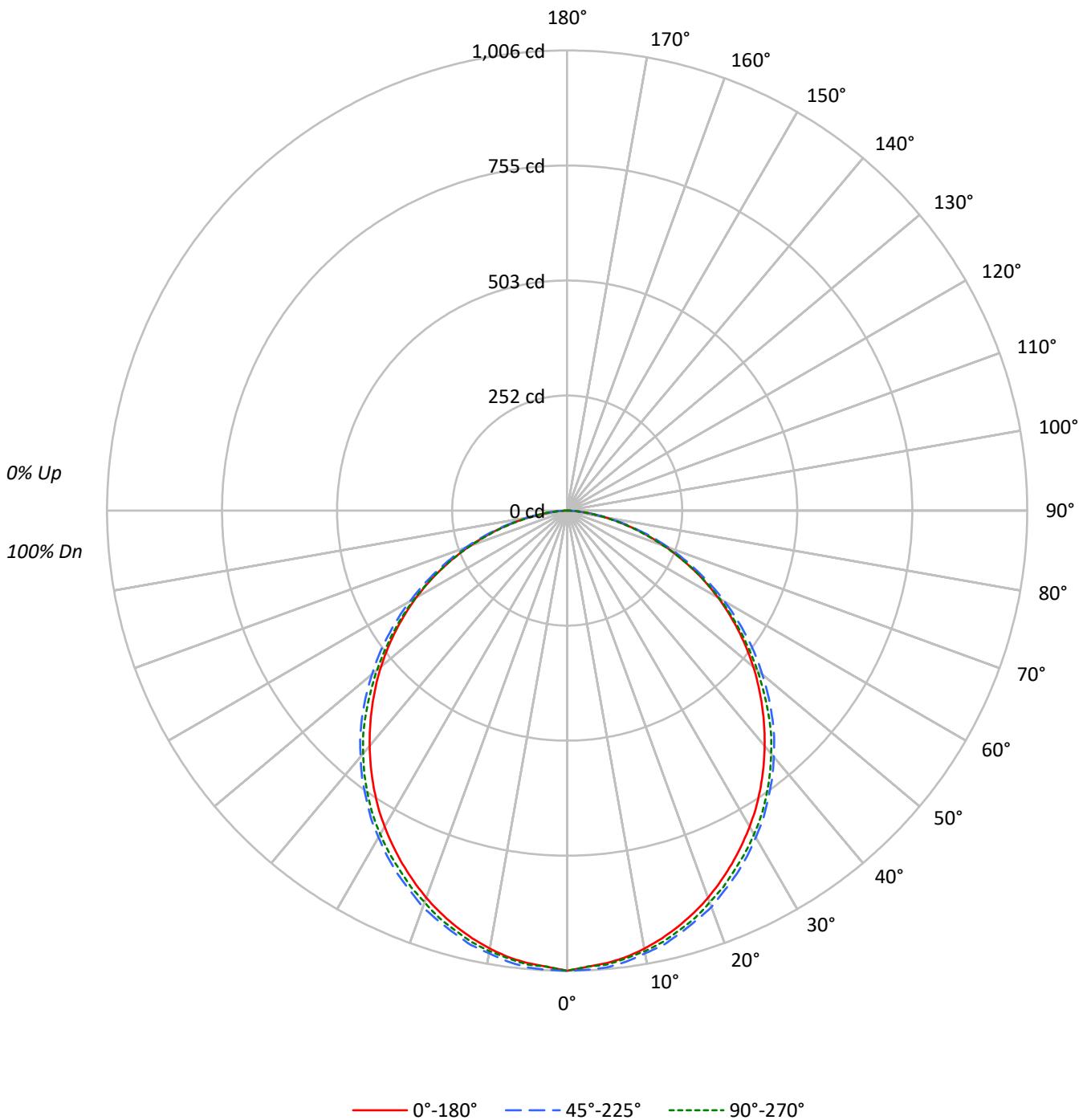
Lumens per Lamp: N/A  
Luminaire Lumens: 2645.3 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1354	1354	1354
5°	1341	1354	1345
10°	1329	1342	1336
15°	1311	1332	1322
20°	1290	1321	1305
25°	1265	1302	1287
30°	1239	1281	1270
35°	1211	1259	1248
40°	1180	1234	1219
45°	1147	1205	1182
50°	1112	1166	1136
55°	1072	1122	1088
60°	1026	1069	1036
65°	967	1004	968
70°	890	926	880
75°	783	819	771
80°	637	665	629
85°	443	472	462



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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°	2138.1	80.8
0°-90°	2645.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.3	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	393
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°	1006.2	1006.2	1006.2	1006.2	1006.2
2.5°	998.3	1001.6	1004.9	1006.4	998.2
5°	993.1	995.0	1002.4	1004.7	996.2
7.5°	984.5	987.3	994.5	995.6	987.4
10°	972.7	977.8	982.6	987.8	977.9
12.5°	957.7	964.6	972.7	973.7	966.1
15°	940.9	947.2	956.1	961.8	949.4
17.5°	922.0	928.1	939.6	940.7	933.1
20°	900.9	908.5	922.3	924.7	911.2
22.5°	877.0	887.2	898.7	901.0	891.1
25°	852.0	862.5	876.7	880.0	866.6
27.5°	825.8	835.8	851.9	854.2	843.0
30°	797.7	807.1	824.7	828.6	817.2
32.5°	769.2	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	741.4	728.0
40°	671.8	682.9	702.7	706.7	693.8
42.5°	637.6	648.7	669.9	670.5	659.8
45°	602.7	613.4	633.1	633.6	621.1
47.5°	567.2	578.0	595.7	593.7	581.9
50°	531.4	541.7	557.1	553.1	542.5
52.5°	494.3	504.2	518.8	512.3	502.4
55°	457.0	466.2	478.3	471.4	463.7
57.5°	419.3	428.7	438.0	431.0	424.3
60°	381.4	389.6	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	270.3	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	120.5	116.8	113.5
80°	82.2	84.4	85.8	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)