

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: P489395

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1HI-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: P489395  
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-LD4-1HI-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

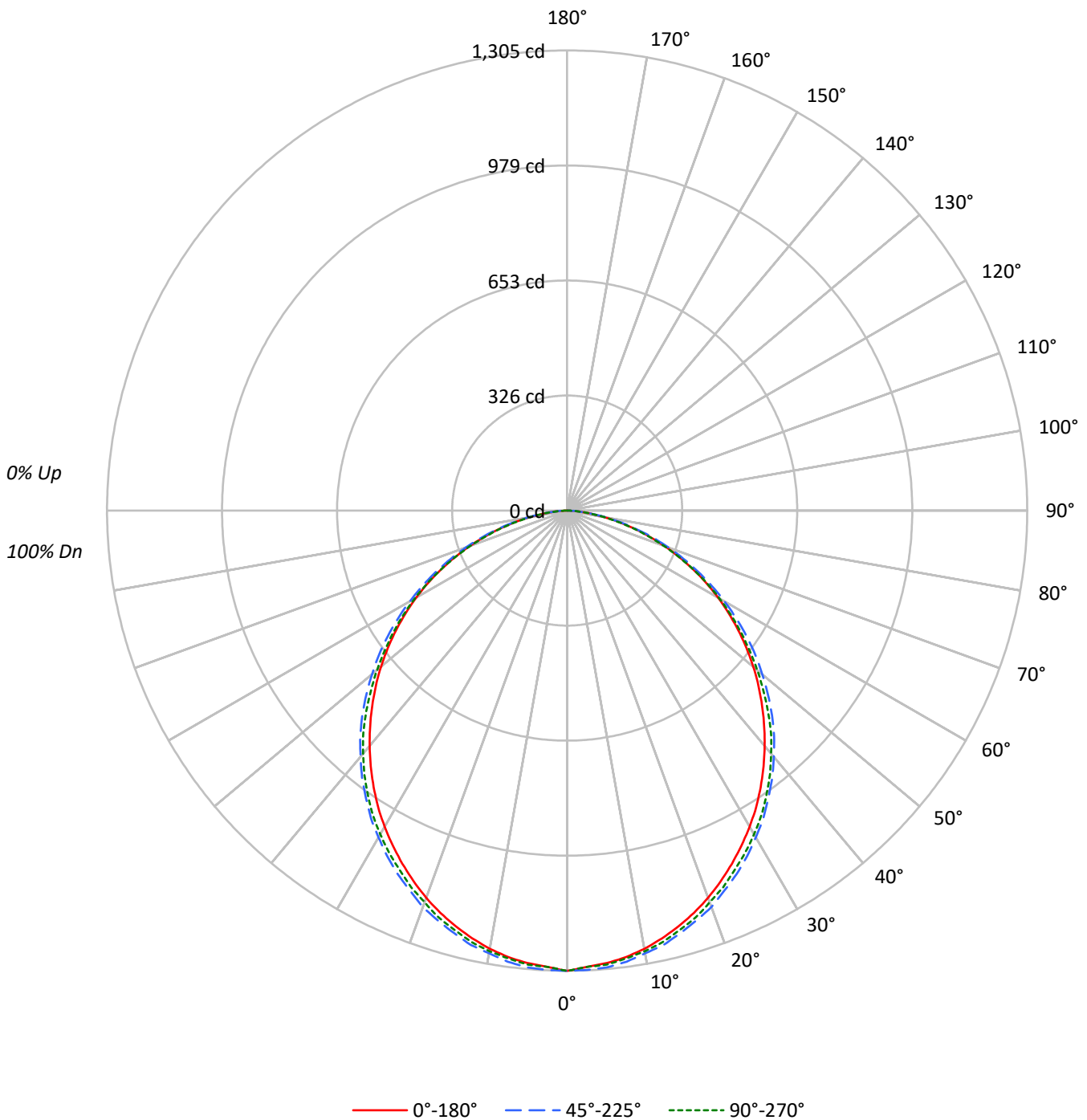
Lumens per Lamp: N/A  
Luminaire Lumens: 3431.7 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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°	1756	1756	1756
5°	1740	1756	1746
10°	1724	1742	1733
15°	1700	1728	1716
20°	1674	1713	1693
25°	1641	1688	1669
30°	1608	1662	1647
35°	1571	1634	1619
40°	1531	1601	1581
45°	1488	1563	1533
50°	1443	1513	1473
55°	1391	1456	1411
60°	1331	1387	1344
65°	1255	1303	1256
70°	1155	1201	1142
75°	1017	1063	1001
80°	826	862	817
85°	576	613	599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	3.6
10°-20°	348.4	10.2
20°-30°	519.6	15.1
30°-40°	615.7	17.9
40°-50°	623.0	18.2
50°-60°	544.1	15.9
60°-70°	397.6	11.6
70°-80°	211.6	6.2
80°-90°	48.9	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°	990.9	28.9
0°-40°	1606.6	46.8
0°-60°	2773.6	80.8
0°-90°	3431.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1288	1291	1300	1303	1292	122
15°	1221	1229	1240	1248	1232	344
25°	1105	1119	1137	1142	1124	509
35°	957	972	995	1002	985	598
45°	782	796	821	822	806	603
55°	593	605	621	612	602	530
65°	394	402	409	401	394	390
75°	196	200	204	197	193	208
85°	37	38	40	40	39	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1295.1	1299.3	1303.7	1305.6	1295.0
5°	1288.3	1290.7	1300.4	1303.4	1292.4
7.5°	1277.1	1280.8	1290.2	1291.6	1281.0
10°	1261.9	1268.4	1274.7	1281.5	1268.6
12.5°	1242.5	1251.3	1261.9	1263.1	1253.3
15°	1220.6	1228.7	1240.3	1247.8	1231.6
17.5°	1196.1	1204.0	1218.9	1220.3	1210.5
20°	1168.8	1178.5	1196.5	1199.6	1182.1
22.5°	1137.7	1150.9	1165.9	1168.9	1156.0
25°	1105.2	1118.8	1137.3	1141.6	1124.3
27.5°	1071.2	1084.3	1105.1	1108.1	1093.5
30°	1034.8	1047.0	1069.9	1074.9	1060.1
32.5°	997.8	1010.0	1035.3	1039.6	1025.1
35°	956.7	971.7	994.7	1001.6	985.4
37.5°	914.8	929.4	955.5	961.8	944.4
40°	871.5	885.9	911.6	916.8	900.0
42.5°	827.1	841.5	869.0	869.8	856.0
45°	781.8	795.7	821.3	822.0	805.8
47.5°	735.9	749.9	772.7	770.1	754.9
50°	689.4	702.7	722.7	717.5	703.8
52.5°	641.2	654.1	673.0	664.6	651.7
55°	592.8	604.8	620.6	611.6	601.5
57.5°	544.0	556.1	568.2	559.1	550.4
60°	494.8	505.4	515.3	506.0	499.4
62.5°	444.7	453.8	462.4	453.5	447.3
65°	394.1	402.1	409.2	401.1	394.4
67.5°	343.8	350.6	357.1	348.7	341.8
70°	293.5	299.3	305.3	296.6	290.2
72.5°	243.8	249.0	254.3	245.9	240.3
75°	195.6	200.1	204.4	196.9	192.6
77.5°	149.5	153.3	156.3	151.5	147.3
80°	106.6	109.5	111.2	109.3	105.4
82.5°	68.5	70.6	71.5	71.4	68.8
85°	37.3	37.9	39.7	40.1	38.8
87.5°	14.4	15.4	15.8	17.0	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)