

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: P488586

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-40-120-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: P488586  
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-12-4-INS-A12125-LD4-2LO-40-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

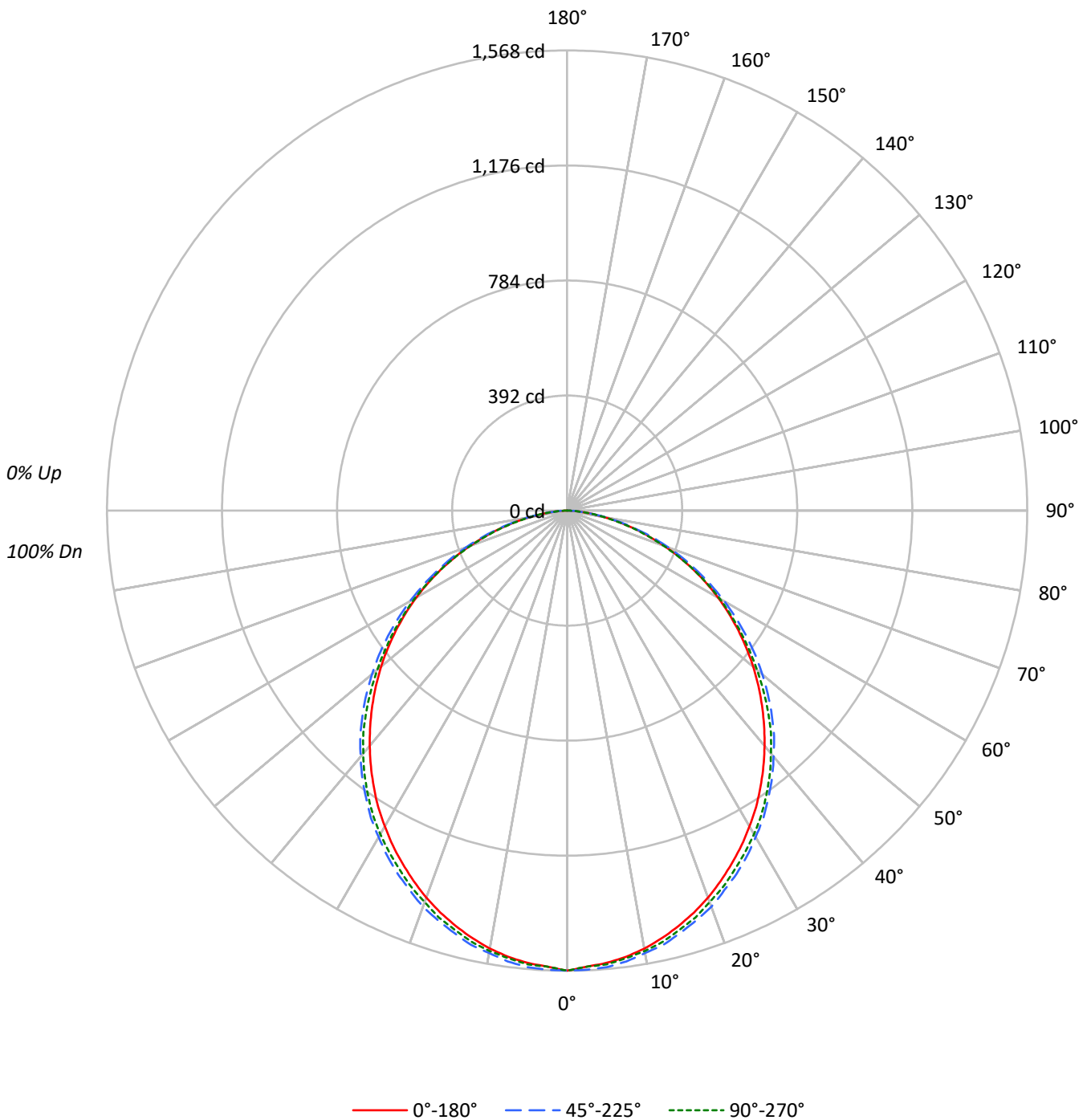
Lumens per Lamp: N/A  
Luminaire Lumens: 4121.1 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	4218	4218	4218
5°	4179	4218	4192
10°	4141	4183	4163
15°	4084	4150	4120
20°	4019	4115	4065
25°	3941	4055	4009
30°	3861	3992	3956
35°	3774	3924	3888
40°	3676	3845	3797
45°	3573	3753	3683
50°	3466	3633	3538
55°	3340	3496	3389
60°	3197	3330	3228
65°	3014	3129	3016
70°	2773	2884	2742
75°	2442	2552	2405
80°	1984	2070	1962
85°	1380	1473	1436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.6	3.6
10°-20°	418.3	10.2
20°-30°	623.9	15.1
30°-40°	739.4	17.9
40°-50°	748.2	18.2
50°-60°	653.4	15.9
60°-70°	477.5	11.6
70°-80°	254.1	6.2
80°-90°	58.7	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°	1189.9	28.9
0°-40°	1929.3	46.8
0°-60°	3330.9	80.8
0°-90°	4121.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1547	1550	1562	1565	1552	147
15°	1466	1476	1490	1498	1479	413
25°	1327	1344	1366	1371	1350	611
35°	1149	1167	1194	1203	1183	719
45°	939	956	986	987	968	724
55°	712	726	745	734	722	636
65°	473	483	491	482	474	468
75°	235	240	246	236	231	250
85°	45	46	48	48	46	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1567.5	1567.5	1567.5	1567.5	1567.5
2.5°	1555.3	1560.3	1565.6	1567.8	1555.1
5°	1547.1	1550.0	1561.6	1565.2	1552.0
7.5°	1533.7	1538.1	1549.4	1551.0	1538.3
10°	1515.4	1523.3	1530.8	1538.9	1523.4
12.5°	1492.1	1502.7	1515.4	1516.9	1505.1
15°	1465.8	1475.6	1489.5	1498.4	1479.0
17.5°	1436.4	1445.8	1463.8	1465.4	1453.7
20°	1403.5	1415.3	1436.9	1440.6	1419.6
22.5°	1366.3	1382.2	1400.1	1403.7	1388.2
25°	1327.3	1343.6	1365.8	1370.9	1350.1
27.5°	1286.5	1302.1	1327.1	1330.7	1313.2
30°	1242.7	1257.4	1284.8	1290.9	1273.1
32.5°	1198.3	1213.0	1243.3	1248.4	1231.1
35°	1148.9	1166.9	1194.5	1202.8	1183.4
37.5°	1098.6	1116.1	1147.5	1155.0	1134.1
40°	1046.5	1063.8	1094.7	1100.9	1080.8
42.5°	993.3	1010.6	1043.6	1044.6	1027.9
45°	938.9	955.6	986.3	987.1	967.7
47.5°	883.7	900.5	928.0	924.9	906.6
50°	827.9	843.9	867.9	861.7	845.2
52.5°	770.0	785.6	808.3	798.1	782.6
55°	711.9	726.3	745.2	734.4	722.4
57.5°	653.3	667.8	682.3	671.4	660.9
60°	594.1	606.9	618.8	607.7	599.7
62.5°	534.0	545.0	555.3	544.7	537.2
65°	473.3	482.9	491.4	481.6	473.6
67.5°	412.9	421.0	428.9	418.7	410.4
70°	352.4	359.5	366.6	356.2	348.5
72.5°	292.8	299.0	305.4	295.3	288.6
75°	234.9	240.2	245.5	236.5	231.3
77.5°	179.5	184.1	187.7	181.9	176.9
80°	128.0	131.5	133.6	131.3	126.6
82.5°	82.3	84.8	85.9	85.7	82.6
85°	44.7	45.6	47.7	48.2	46.5
87.5°	17.3	18.5	18.9	20.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)