

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: P488359

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-40-120-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: P488359  
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-12-2-INS-A12125-LD4-2HI-40-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

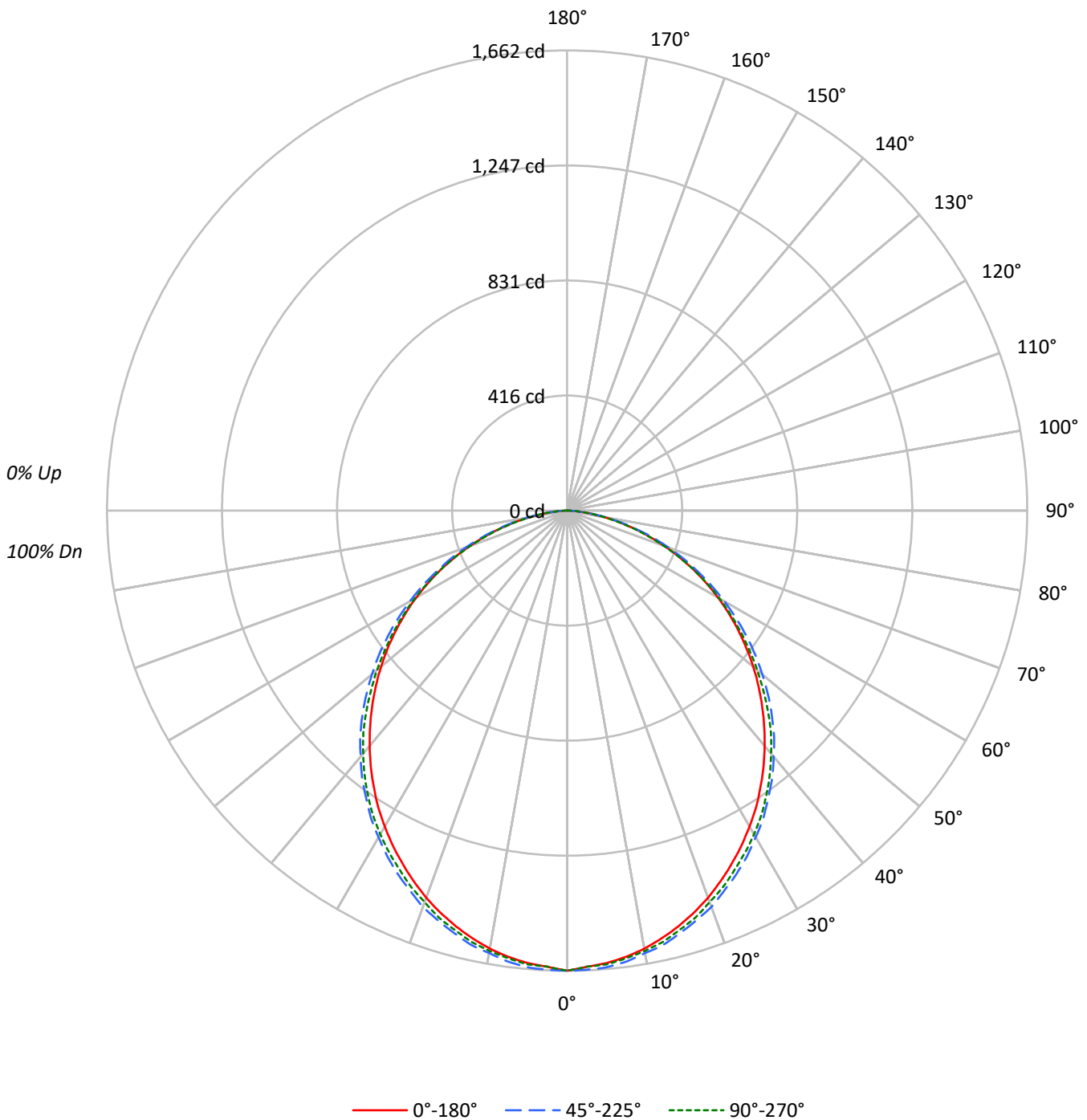
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4369.3 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' 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°	8944	8944	8944
5°	8862	8945	8890
10°	8781	8870	8827
15°	8659	8799	8737
20°	8523	8725	8620
25°	8356	8599	8501
30°	8188	8465	8388
35°	8003	8320	8244
40°	7796	8154	8051
45°	7577	7959	7808
50°	7349	7704	7503
55°	7082	7414	7187
60°	6780	7062	6844
65°	6390	6635	6394
70°	5880	6117	5814
75°	5178	5411	5099
80°	4209	4389	4159
85°	2927	3125	3044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	3.6
10°-20°	443.5	10.2
20°-30°	661.5	15.1
30°-40°	783.9	17.9
40°-50°	793.2	18.2
50°-60°	692.7	15.9
60°-70°	506.2	11.6
70°-80°	269.3	6.2
80°-90°	62.3	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°	1261.6	28.9
0°-40°	2045.5	46.8
0°-60°	3531.5	80.8
0°-90°	4369.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1640	1643	1656	1660	1646	156
15°	1554	1564	1579	1589	1568	438
25°	1407	1424	1448	1453	1432	648
35°	1218	1237	1266	1275	1255	762
45°	996	1013	1046	1046	1026	768
55°	755	770	790	779	766	675
65°	502	512	521	511	502	497
75°	249	255	260	251	245	265
85°	47	48	51	51	49	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1661.9	1661.9	1661.9	1661.9	1661.9
2.5°	1648.9	1654.3	1659.8	1662.3	1648.8
5°	1640.3	1643.4	1655.7	1659.5	1645.5
7.5°	1626.1	1630.8	1642.7	1644.4	1630.9
10°	1606.7	1615.0	1623.0	1631.6	1615.2
12.5°	1581.9	1593.2	1606.7	1608.2	1595.8
15°	1554.1	1564.4	1579.2	1588.7	1568.1
17.5°	1522.9	1532.9	1552.0	1553.7	1541.2
20°	1488.1	1500.5	1523.4	1527.4	1505.0
22.5°	1448.6	1465.4	1484.4	1488.3	1471.8
25°	1407.2	1424.5	1448.1	1453.4	1431.5
27.5°	1363.9	1380.6	1407.0	1410.9	1392.3
30°	1317.5	1333.1	1362.2	1368.6	1349.7
32.5°	1270.4	1286.0	1318.2	1323.6	1305.2
35°	1218.1	1237.2	1266.4	1275.3	1254.7
37.5°	1164.8	1183.3	1216.6	1224.5	1202.4
40°	1109.6	1127.9	1160.6	1167.2	1145.9
42.5°	1053.1	1071.5	1106.5	1107.5	1089.8
45°	995.5	1013.1	1045.7	1046.5	1025.9
47.5°	936.9	954.8	983.9	980.6	961.2
50°	877.7	894.7	920.1	913.6	896.1
52.5°	816.4	832.9	856.9	846.2	829.8
55°	754.8	770.0	790.1	778.7	765.9
57.5°	692.6	708.0	723.4	711.8	700.8
60°	629.9	643.4	656.1	644.3	635.8
62.5°	566.2	577.8	588.7	577.5	569.5
65°	501.8	512.0	521.0	510.6	502.1
67.5°	437.7	446.4	454.7	444.0	435.1
70°	373.7	381.1	388.7	377.6	369.5
72.5°	310.5	317.0	323.8	313.1	306.0
75°	249.0	254.7	260.2	250.7	245.2
77.5°	190.3	195.1	199.0	192.9	187.5
80°	135.8	139.4	141.6	139.2	134.2
82.5°	87.3	89.9	91.1	90.9	87.6
85°	47.4	48.3	50.6	51.1	49.3
87.5°	18.4	19.6	20.1	21.6	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)