

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: P488533

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-27-120-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: P488533  
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-LD4-1HI-27-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

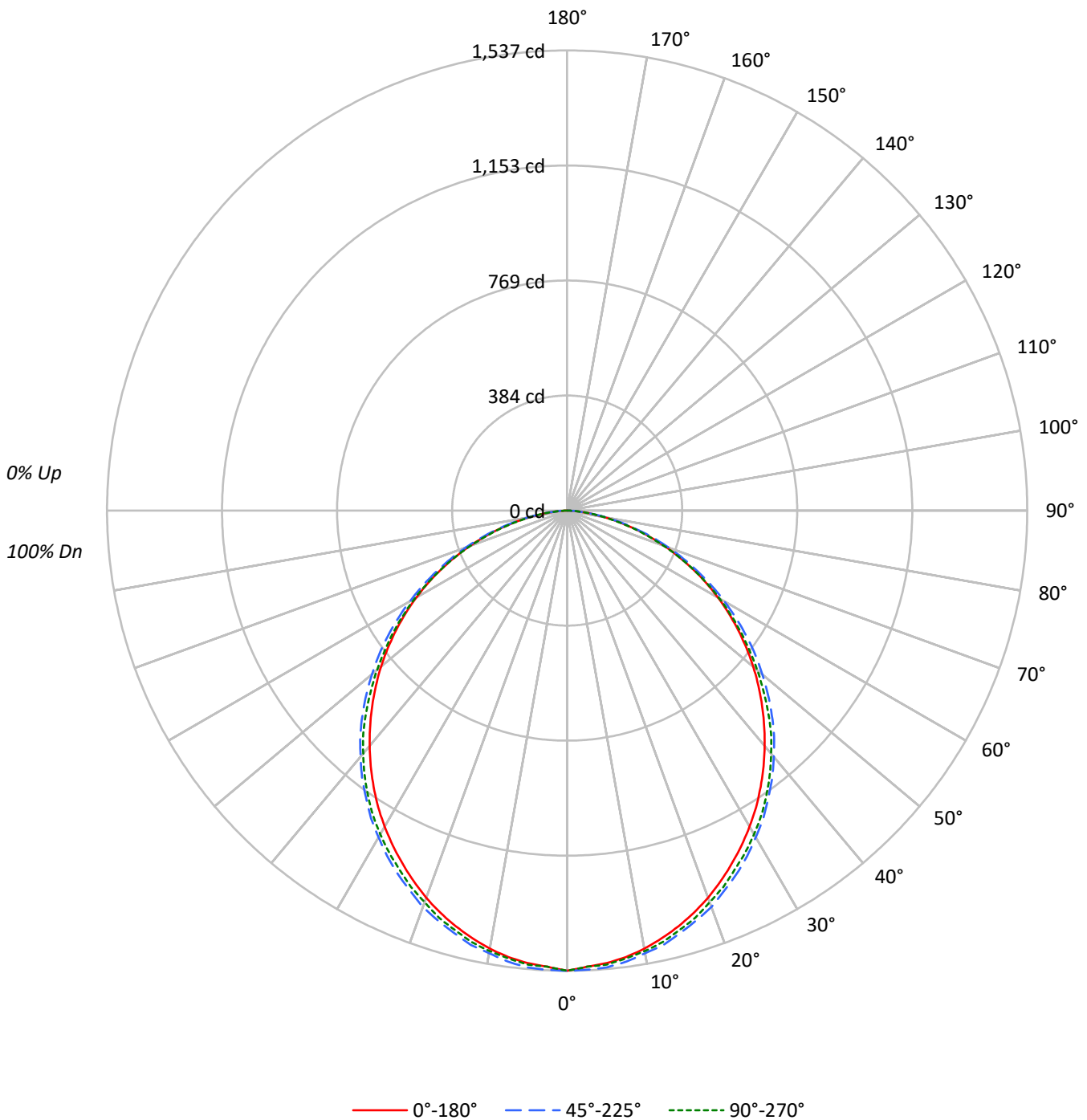
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4041.2 lumens  
Efficiency: N/A  
Efficacy: 93.5 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): 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°	4136	4136	4136
5°	4098	4137	4111
10°	4060	4102	4082
15°	4004	4069	4040
20°	3941	4035	3986
25°	3864	3977	3931
30°	3787	3915	3879
35°	3701	3848	3812
40°	3605	3771	3723
45°	3504	3681	3611
50°	3399	3563	3470
55°	3275	3429	3323
60°	3136	3266	3165
65°	2955	3068	2957
70°	2719	2829	2689
75°	2394	2503	2358
80°	1946	2030	1923
85°	1355	1445	1408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.6
10°-20°	410.2	10.2
20°-30°	611.9	15.1
30°-40°	725.0	17.9
40°-50°	733.6	18.2
50°-60°	640.7	15.9
60°-70°	468.2	11.6
70°-80°	249.1	6.2
80°-90°	57.6	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°	1166.9	28.9
0°-40°	1891.9	46.8
0°-60°	3266.3	80.8
0°-90°	4041.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4041.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1517	1520	1531	1535	1522	144
15°	1437	1447	1461	1469	1450	405
25°	1302	1318	1339	1344	1324	600
35°	1127	1144	1171	1180	1160	705
45°	921	937	967	968	949	710
55°	698	712	731	720	708	624
65°	464	474	482	472	464	459
75°	230	236	241	232	227	245
85°	44	45	47	47	46	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1537.1	1537.1	1537.1	1537.1	1537.1
2.5°	1525.1	1530.1	1535.2	1537.4	1525.0
5°	1517.1	1520.0	1531.4	1534.9	1521.9
7.5°	1504.0	1508.3	1519.4	1521.0	1508.5
10°	1486.0	1493.7	1501.1	1509.1	1493.9
12.5°	1463.1	1473.5	1486.0	1487.5	1476.0
15°	1437.4	1447.0	1460.6	1469.4	1450.3
17.5°	1408.5	1417.8	1435.4	1437.0	1425.5
20°	1376.3	1387.9	1409.0	1412.7	1392.0
22.5°	1339.8	1355.4	1373.0	1376.5	1361.3
25°	1301.5	1317.6	1339.3	1344.3	1324.0
27.5°	1261.5	1276.9	1301.4	1304.9	1287.8
30°	1218.6	1233.0	1259.9	1265.8	1248.4
32.5°	1175.0	1189.4	1219.2	1224.2	1207.2
35°	1126.7	1144.3	1171.3	1179.5	1160.5
37.5°	1077.3	1094.5	1125.2	1132.6	1112.1
40°	1026.2	1043.2	1073.5	1079.6	1059.9
42.5°	974.0	991.0	1023.4	1024.3	1008.0
45°	920.7	937.0	967.2	968.0	948.9
47.5°	866.6	883.1	910.0	906.9	889.0
50°	811.8	827.5	851.0	845.0	828.8
52.5°	755.1	770.3	792.6	782.7	767.4
55°	698.1	712.2	730.8	720.2	708.3
57.5°	640.6	654.9	669.1	658.4	648.1
60°	582.6	595.1	606.8	595.9	588.1
62.5°	523.7	534.4	544.5	534.1	526.7
65°	464.1	473.6	481.9	472.3	464.4
67.5°	404.9	412.9	420.6	410.6	402.5
70°	345.6	352.5	359.5	349.3	341.8
72.5°	287.2	293.2	299.5	289.6	283.0
75°	230.3	235.6	240.7	231.9	226.8
77.5°	176.0	180.5	184.0	178.4	173.4
80°	125.6	128.9	131.0	128.8	124.1
82.5°	80.7	83.1	84.2	84.1	81.0
85°	43.9	44.7	46.8	47.2	45.6
87.5°	17.0	18.1	18.6	20.0	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)