

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: P488589

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-50-120-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: P488589  
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-50-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

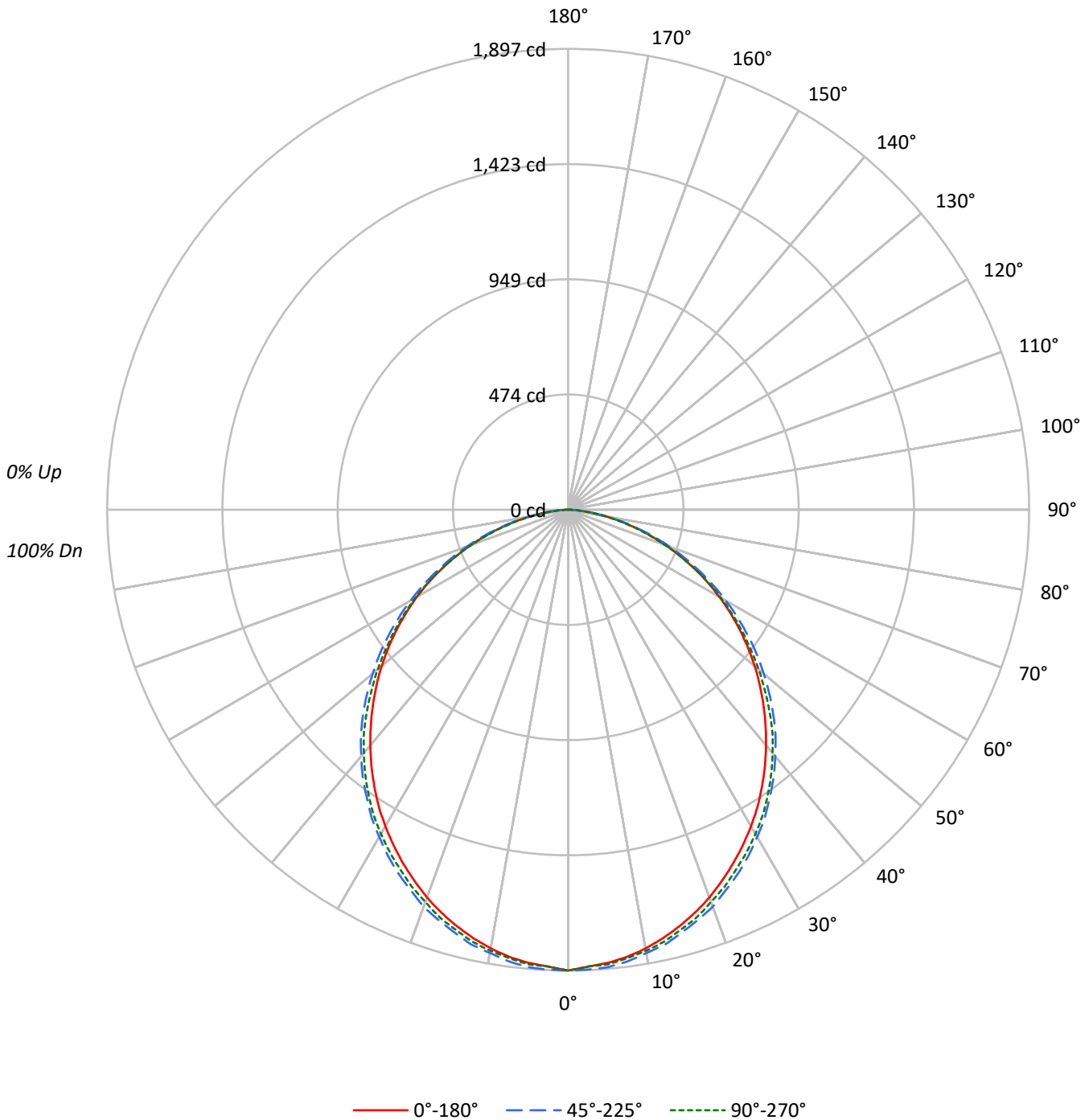
Lumens per Lamp: N/A  
Luminaire Lumens: 4988.0 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 46.8  
Input Voltage (V): NR  
Input Current (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°	5106	5106	5106
5°	5058	5106	5074
10°	5012	5063	5038
15°	4942	5022	4987
20°	4865	4980	4920
25°	4770	4908	4852
30°	4674	4832	4788
35°	4568	4750	4705
40°	4450	4654	4595
45°	4325	4543	4457
50°	4195	4397	4283
55°	4043	4232	4102
60°	3870	4031	3907
65°	3648	3787	3650
70°	3356	3492	3319
75°	2956	3089	2910
80°	2402	2506	2374
85°	1673	1782	1738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.7	3.6
10°-20°	506.4	10.2
20°-30°	755.2	15.1
30°-40°	894.9	17.9
40°-50°	905.5	18.2
50°-60°	790.8	15.9
60°-70°	577.9	11.6
70°-80°	307.5	6.2
80°-90°	71.1	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°	1440.2	28.9
0°-40°	2335.2	46.8
0°-60°	4031.5	80.8
0°-90°	4988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4988.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1897	1897	1897	1897	1897	
5°	1872	1876	1890	1894	1878	178
15°	1774	1786	1803	1814	1790	500
25°	1606	1626	1653	1659	1634	740
35°	1391	1412	1446	1456	1432	870
45°	1136	1157	1194	1195	1171	877
55°	862	879	902	889	874	770
65°	573	584	595	583	573	567
75°	284	291	297	286	280	302
85°	54	55	58	58	56	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1897.3	1897.3	1897.3	1897.3	1897.3
2.5°	1882.4	1888.6	1894.9	1897.7	1882.2
5°	1872.5	1876.1	1890.1	1894.5	1878.5
7.5°	1856.3	1861.7	1875.3	1877.3	1861.9
10°	1834.2	1843.7	1852.8	1862.7	1843.9
12.5°	1805.9	1818.8	1834.2	1836.0	1821.7
15°	1774.1	1786.0	1802.8	1813.6	1790.1
17.5°	1738.5	1750.0	1771.7	1773.7	1759.5
20°	1698.8	1713.0	1739.1	1743.7	1718.2
22.5°	1653.7	1672.9	1694.6	1699.0	1680.2
25°	1606.5	1626.2	1653.1	1659.3	1634.2
27.5°	1557.1	1576.0	1606.3	1610.6	1589.5
30°	1504.1	1521.9	1555.1	1562.4	1540.9
32.5°	1450.3	1468.1	1504.9	1511.0	1490.1
35°	1390.6	1412.4	1445.8	1455.9	1432.3
37.5°	1329.7	1350.9	1388.8	1397.9	1372.6
40°	1266.7	1287.6	1325.0	1332.5	1308.2
42.5°	1202.2	1223.2	1263.1	1264.3	1244.1
45°	1136.4	1156.6	1193.7	1194.7	1171.2
47.5°	1069.6	1090.0	1123.2	1119.4	1097.3
50°	1002.0	1021.4	1050.4	1042.9	1023.0
52.5°	932.0	950.8	978.3	966.0	947.2
55°	861.7	879.0	902.0	888.9	874.3
57.5°	790.7	808.3	825.9	812.6	800.0
60°	719.1	734.5	749.0	735.5	725.9
62.5°	646.4	659.6	672.1	659.2	650.1
65°	572.9	584.5	594.8	582.9	573.2
67.5°	499.7	509.6	519.1	506.8	496.8
70°	426.6	435.1	443.8	431.1	421.8
72.5°	354.4	361.9	369.6	357.4	349.3
75°	284.3	290.8	297.1	286.2	279.9
77.5°	217.2	222.8	227.1	220.2	214.1
80°	155.0	159.1	161.7	158.9	153.2
82.5°	99.6	102.6	104.0	103.8	100.0
85°	54.2	55.2	57.7	58.3	56.3
87.5°	21.0	22.3	22.9	24.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)