

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: P488981

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-35-120-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: P488981  
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-24-2-INS-A12125-LD4-4LO-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

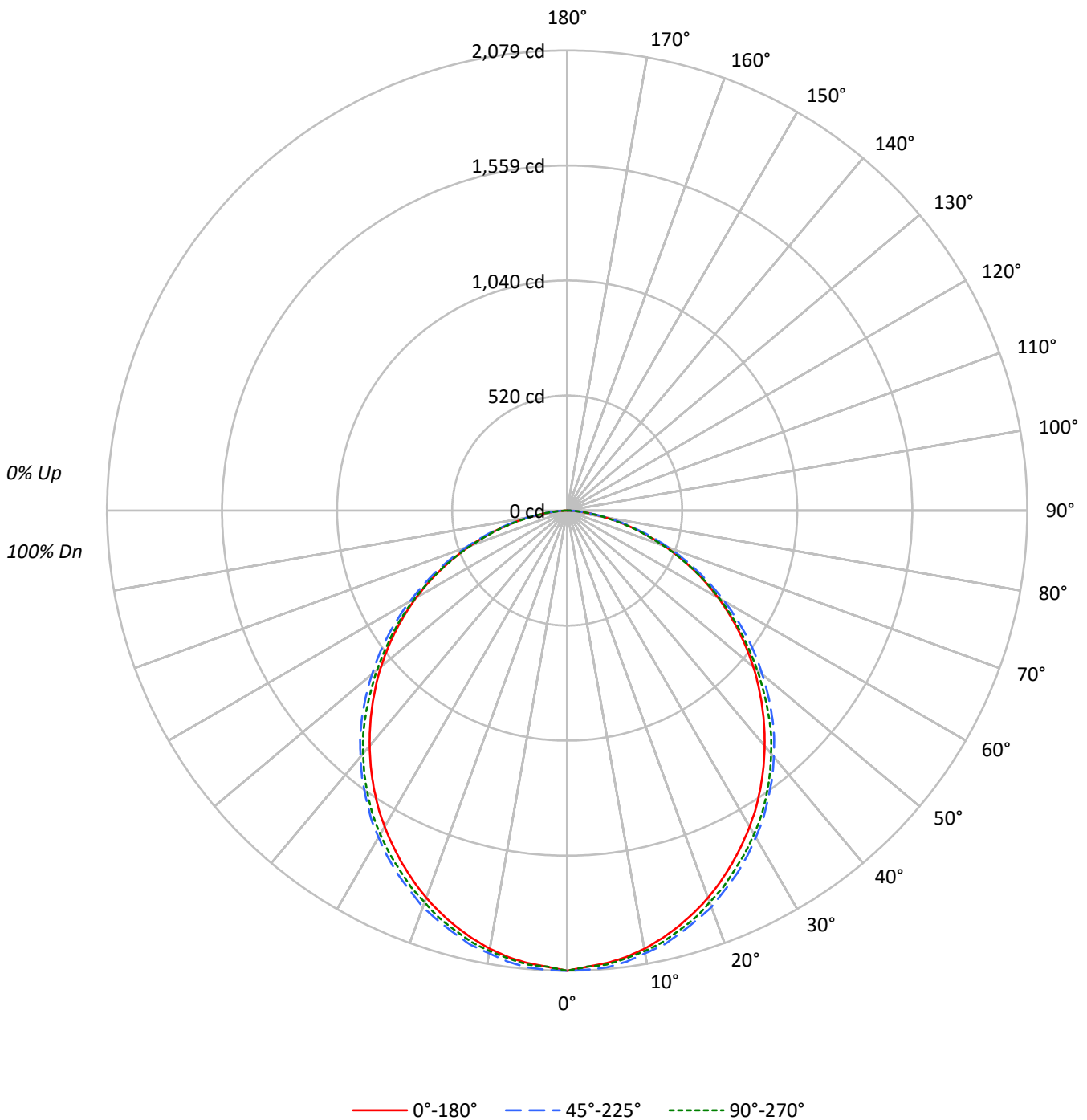
Lumens per Lamp: N/A  
Luminaire Lumens: 5466.9 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	5596	5596	5596
5°	5544	5596	5561
10°	5493	5549	5522
15°	5417	5505	5466
20°	5332	5458	5393
25°	5228	5380	5318
30°	5122	5296	5248
35°	5007	5206	5157
40°	4877	5101	5037
45°	4740	4979	4885
50°	4598	4820	4694
55°	4431	4638	4495
60°	4242	4418	4281
65°	3998	4151	4001
70°	3678	3827	3637
75°	3239	3385	3190
80°	2633	2746	2602
85°	1834	1954	1905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	3.6
10°-20°	555.0	10.2
20°-30°	827.7	15.1
30°-40°	980.8	17.9
40°-50°	992.5	18.2
50°-60°	866.8	15.9
60°-70°	633.4	11.6
70°-80°	337.0	6.2
80°-90°	77.9	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°	1578.5	28.9
0°-40°	2559.4	46.8
0°-60°	4418.6	80.8
0°-90°	5466.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5466.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2079	2079	2079	2079	2079	
5°	2052	2056	2072	2076	2059	195
15°	1944	1957	1976	1988	1962	548
25°	1761	1782	1812	1819	1791	811
35°	1524	1548	1585	1596	1570	953
45°	1246	1268	1308	1309	1284	961
55°	944	963	989	974	958	844
65°	628	641	652	639	628	621
75°	312	319	326	314	307	331
85°	59	60	63	64	62	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2079.4	2079.4	2079.4	2079.4	2079.4
2.5°	2063.2	2069.9	2076.8	2079.8	2062.9
5°	2052.3	2056.2	2071.6	2076.4	2058.8
7.5°	2034.6	2040.4	2055.4	2057.5	2040.6
10°	2010.3	2020.7	2030.7	2041.5	2020.9
12.5°	1979.3	1993.4	2010.3	2012.3	1996.7
15°	1944.4	1957.4	1975.9	1987.8	1962.0
17.5°	1905.4	1918.0	1941.8	1944.0	1928.4
20°	1861.9	1877.5	1906.1	1911.1	1883.1
22.5°	1812.5	1833.5	1857.3	1862.1	1841.5
25°	1760.7	1782.4	1811.9	1818.6	1791.1
27.5°	1706.6	1727.4	1760.5	1765.3	1742.1
30°	1648.5	1668.0	1704.4	1712.4	1688.8
32.5°	1589.6	1609.1	1649.4	1656.1	1633.1
35°	1524.1	1548.0	1584.6	1595.6	1569.9
37.5°	1457.4	1480.6	1522.2	1532.2	1504.4
40°	1388.3	1411.3	1452.2	1460.4	1433.8
42.5°	1317.7	1340.6	1384.4	1385.7	1363.6
45°	1245.5	1267.6	1308.4	1309.4	1283.7
47.5°	1172.3	1194.6	1231.0	1226.9	1202.6
50°	1098.2	1119.4	1151.3	1143.0	1121.2
52.5°	1021.5	1042.1	1072.2	1058.8	1038.2
55°	944.4	963.4	988.6	974.3	958.2
57.5°	866.6	885.9	905.2	890.7	876.8
60°	788.2	805.1	820.9	806.2	795.5
62.5°	708.4	723.0	736.6	722.5	712.6
65°	627.9	640.6	651.9	638.9	628.3
67.5°	547.7	558.5	568.9	555.5	544.4
70°	467.5	476.8	486.4	472.5	462.3
72.5°	388.5	396.7	405.1	391.7	382.8
75°	311.5	318.7	325.6	313.7	306.8
77.5°	238.1	244.2	248.9	241.3	234.6
80°	169.9	174.4	177.2	174.2	167.9
82.5°	109.2	112.4	114.0	113.7	109.6
85°	59.4	60.4	63.3	63.9	61.7
87.5°	23.0	24.5	25.1	27.1	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)