

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: P489345

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4LO-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: P489345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-4LO-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

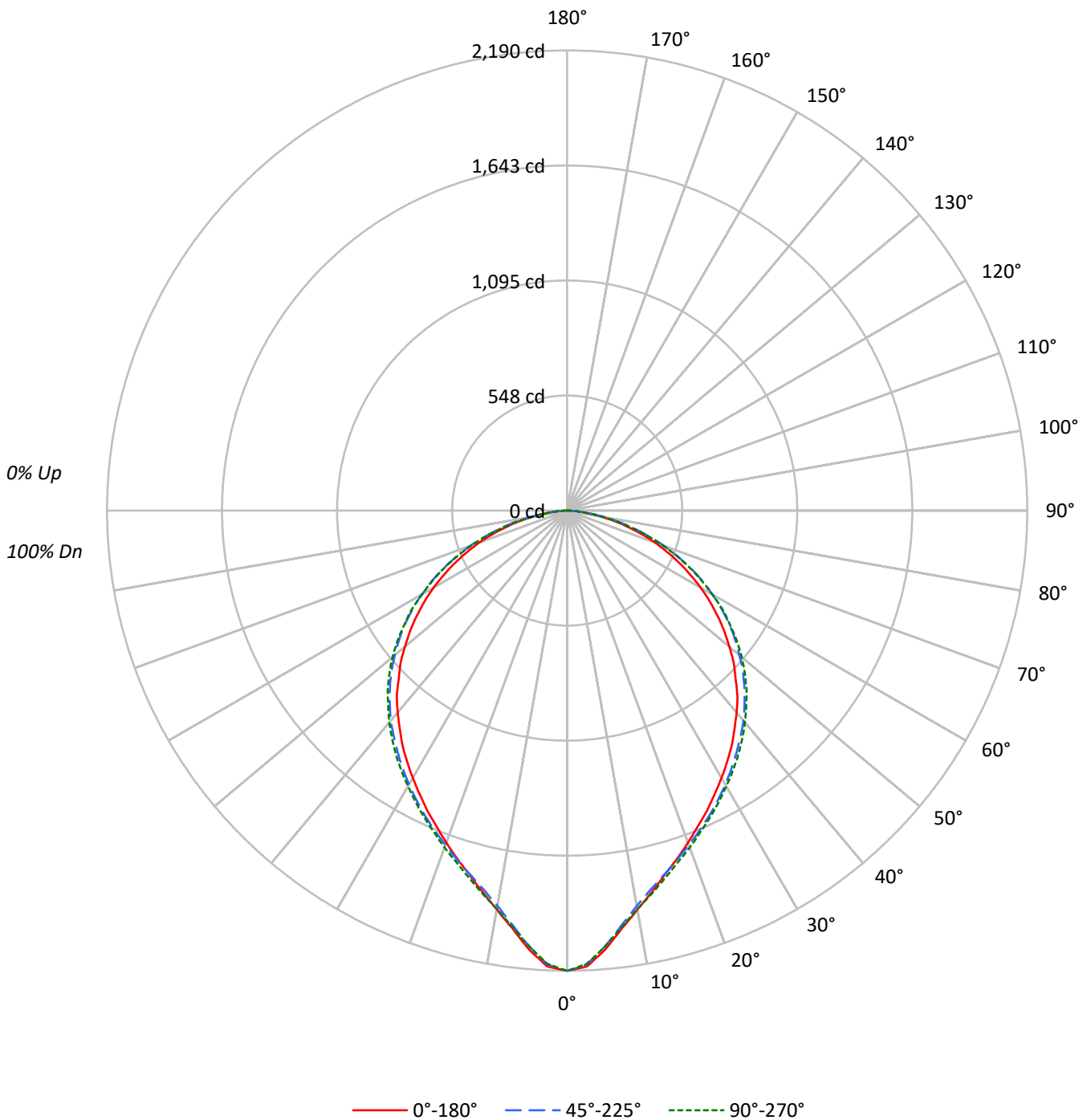
Lumens per Lamp: N/A  
Luminaire Lumens: 5087.7 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5894	5894	5894
5°	5659	5619	5619
10°	5267	5219	5260
15°	4998	4989	5038
20°	4815	4849	4887
25°	4677	4753	4781
30°	4565	4677	4706
35°	4486	4617	4664
40°	4406	4585	4624
45°	4316	4540	4595
50°	4220	4484	4544
55°	4103	4419	4437
60°	3956	4297	4289
65°	3750	4133	4105
70°	3500	3854	3806
75°	3090	3414	3380
80°	2510	2782	2645
85°	1741	1775	1707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.5	3.8
10°-20°	507.0	10.0
20°-30°	737.2	14.5
30°-40°	877.3	17.2
40°-50°	910.9	17.9
50°-60°	825.2	16.2
60°-70°	622.7	12.2
70°-80°	339.3	6.7
80°-90°	74.6	1.5
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°	1437.7	28.3
0°-40°	2315.0	45.5
0°-60°	4051.1	79.6
0°-90°	5087.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5087.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2095	2090	2080	2079	2080	194
15°	1794	1790	1791	1803	1808	506
25°	1575	1588	1601	1614	1610	726
35°	1366	1382	1406	1427	1420	854
45°	1134	1154	1193	1206	1207	877
55°	875	895	942	948	946	781
65°	589	606	649	648	645	582
75°	297	309	328	331	325	317
85°	56	57	58	57	55	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2190.3	2190.3	2190.3	2190.3	2190.3
2.5°	2171.2	2169.0	2161.9	2159.1	2158.6
5°	2095.1	2090.2	2080.3	2079.2	2080.3
7.5°	2004.2	1998.8	1988.9	1992.8	1997.7
10°	1927.6	1913.9	1910.1	1915.6	1924.9
12.5°	1859.2	1848.3	1845.0	1859.2	1865.8
15°	1794.1	1789.7	1790.8	1802.8	1808.3
17.5°	1737.7	1735.0	1742.1	1751.4	1754.1
20°	1681.3	1686.8	1693.4	1703.2	1706.5
22.5°	1626.1	1636.4	1647.4	1660.5	1656.2
25°	1575.2	1588.3	1600.9	1614.0	1610.2
27.5°	1521.0	1536.3	1553.8	1568.0	1562.6
30°	1469.0	1488.1	1505.1	1522.6	1514.4
32.5°	1417.5	1435.6	1455.8	1477.2	1467.9
35°	1365.5	1382.0	1405.5	1426.9	1419.7
37.5°	1308.1	1328.3	1355.1	1373.7	1368.8
40°	1254.4	1273.0	1305.3	1317.4	1316.3
42.5°	1200.2	1215.6	1249.5	1263.2	1261.0
45°	1134.0	1154.3	1193.1	1206.3	1207.4
47.5°	1075.5	1092.4	1134.0	1144.4	1146.6
50°	1008.1	1029.5	1071.1	1083.7	1085.3
52.5°	941.9	964.9	1007.6	1016.3	1018.0
55°	874.6	895.4	941.9	948.5	945.8
57.5°	804.0	829.2	871.9	875.1	877.9
60°	735.0	756.9	798.5	802.9	796.9
62.5°	660.1	682.5	725.2	726.3	721.3
65°	588.9	605.9	649.1	648.0	644.7
67.5°	514.4	535.2	567.0	568.1	565.4
70°	444.9	459.2	489.8	490.4	483.8
72.5°	370.0	385.3	409.9	406.7	405.0
75°	297.2	309.2	328.4	330.6	325.1
77.5°	230.4	239.2	253.4	251.8	245.7
80°	162.0	169.1	179.5	177.3	170.7
82.5°	103.4	107.8	114.4	111.7	108.9
85°	56.4	56.9	57.5	56.9	55.3
87.5°	20.8	21.4	21.4	20.8	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)