

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: P488962

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4HI-20-120-EDD-90**

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: P488962  
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-LD4-4HI-20-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

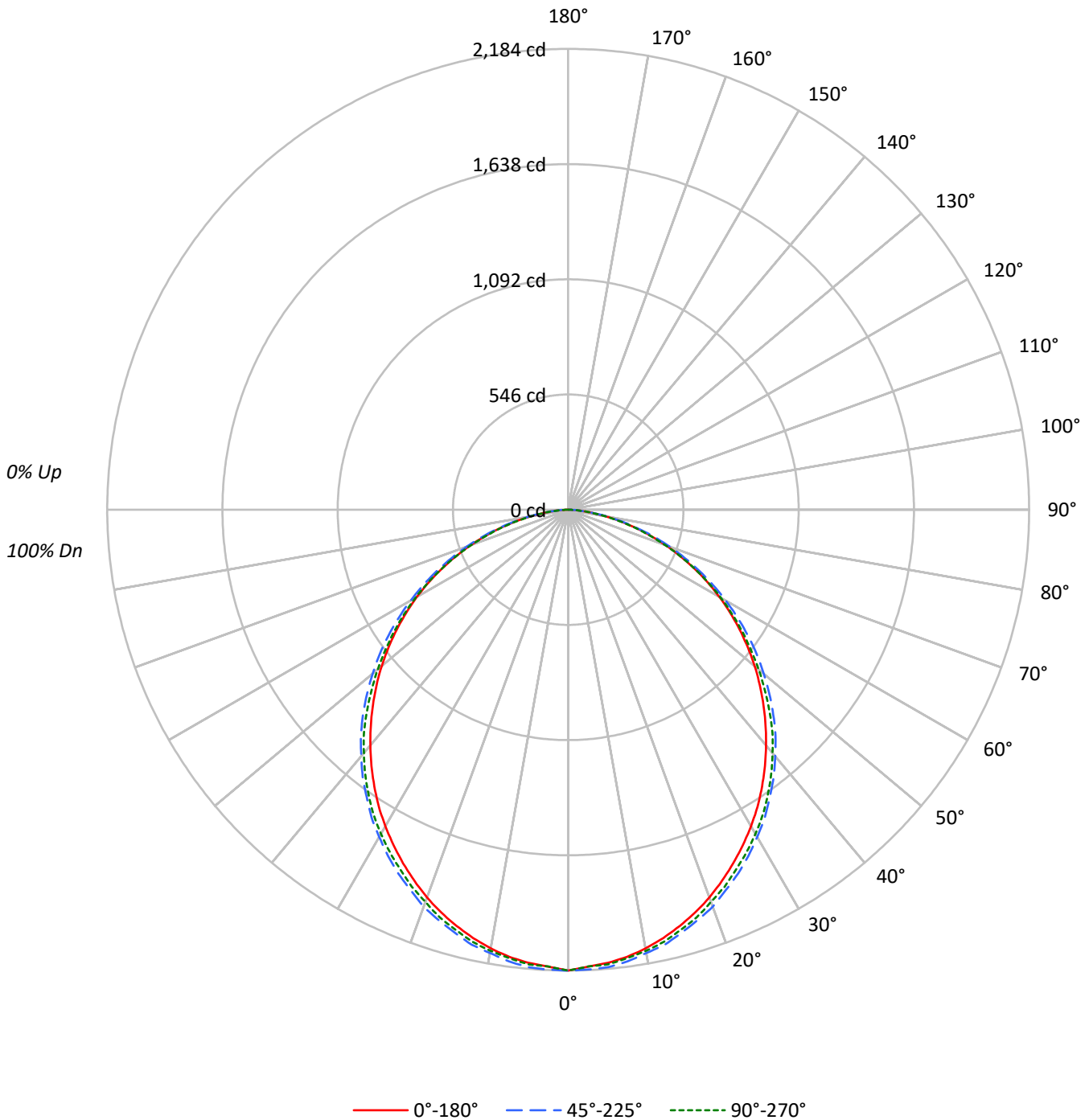
Lumens per Lamp: N/A  
Luminaire Lumens: 5742.7 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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°	5878	5878	5878
5°	5824	5878	5842
10°	5770	5829	5801
15°	5690	5782	5742
20°	5601	5734	5665
25°	5491	5651	5586
30°	5381	5563	5512
35°	5259	5468	5417
40°	5123	5359	5291
45°	4979	5230	5131
50°	4829	5063	4930
55°	4654	4872	4723
60°	4456	4641	4498
65°	4199	4360	4202
70°	3864	4020	3821
75°	3403	3557	3351
80°	2765	2885	2734
85°	1927	2053	2004



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	3.6
10°-20°	583.0	10.2
20°-30°	869.5	15.1
30°-40°	1030.3	17.9
40°-50°	1042.5	18.2
50°-60°	910.5	15.9
60°-70°	665.3	11.6
70°-80°	354.0	6.2
80°-90°	81.8	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°	1658.1	28.9
0°-40°	2688.5	46.8
0°-60°	4641.5	80.8
0°-90°	5742.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5742.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2156	2160	2176	2181	2163	204
15°	2042	2056	2076	2088	2061	576
25°	1850	1872	1903	1910	1881	852
35°	1601	1626	1664	1676	1649	1001
45°	1308	1332	1374	1376	1348	1009
55°	992	1012	1038	1023	1007	887
65°	660	673	685	671	660	653
75°	327	335	342	330	322	348
85°	62	64	66	67	65	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2184.3	2184.3	2184.3	2184.3	2184.3
2.5°	2167.3	2174.3	2181.6	2184.8	2167.0
5°	2155.9	2160.0	2176.1	2181.1	2162.7
7.5°	2137.2	2143.4	2159.1	2161.3	2143.6
10°	2111.7	2122.6	2133.1	2144.5	2122.9
12.5°	2079.2	2094.0	2111.7	2113.8	2097.4
15°	2042.5	2056.2	2075.5	2088.1	2061.0
17.5°	2001.6	2014.8	2039.8	2042.1	2025.7
20°	1955.8	1972.2	2002.3	2007.5	1978.1
22.5°	1903.9	1926.0	1951.0	1956.1	1934.4
25°	1849.5	1872.3	1903.3	1910.3	1881.4
27.5°	1792.7	1814.5	1849.3	1854.3	1830.0
30°	1731.7	1752.1	1790.4	1798.8	1774.0
32.5°	1669.8	1690.2	1732.6	1739.6	1715.5
35°	1601.0	1626.1	1664.5	1676.1	1649.0
37.5°	1530.9	1555.3	1599.0	1609.5	1580.3
40°	1458.3	1482.5	1525.5	1534.1	1506.1
42.5°	1384.1	1408.3	1454.2	1455.6	1432.4
45°	1308.4	1331.6	1374.4	1375.5	1348.4
47.5°	1231.4	1254.9	1293.1	1288.8	1263.3
50°	1153.6	1175.9	1209.4	1200.7	1177.7
52.5°	1073.0	1094.7	1126.3	1112.2	1090.6
55°	992.0	1012.1	1038.5	1023.4	1006.6
57.5°	910.3	930.6	950.8	935.6	921.0
60°	827.9	845.7	862.3	846.8	835.7
62.5°	744.2	759.4	773.8	759.0	748.5
65°	659.5	673.0	684.8	671.1	660.0
67.5°	575.3	586.7	597.6	583.5	571.9
70°	491.1	500.9	510.9	496.4	485.7
72.5°	408.1	416.7	425.6	411.5	402.1
75°	327.3	334.8	342.1	329.5	322.3
77.5°	250.1	256.5	261.5	253.5	246.5
80°	178.4	183.2	186.2	183.0	176.4
82.5°	114.7	118.1	119.7	119.5	115.2
85°	62.4	63.5	66.5	67.1	64.9
87.5°	24.1	25.7	26.4	28.4	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)