

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: P489430

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-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: P489430  
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-24-4-INS-A12125-LD4-2HI-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

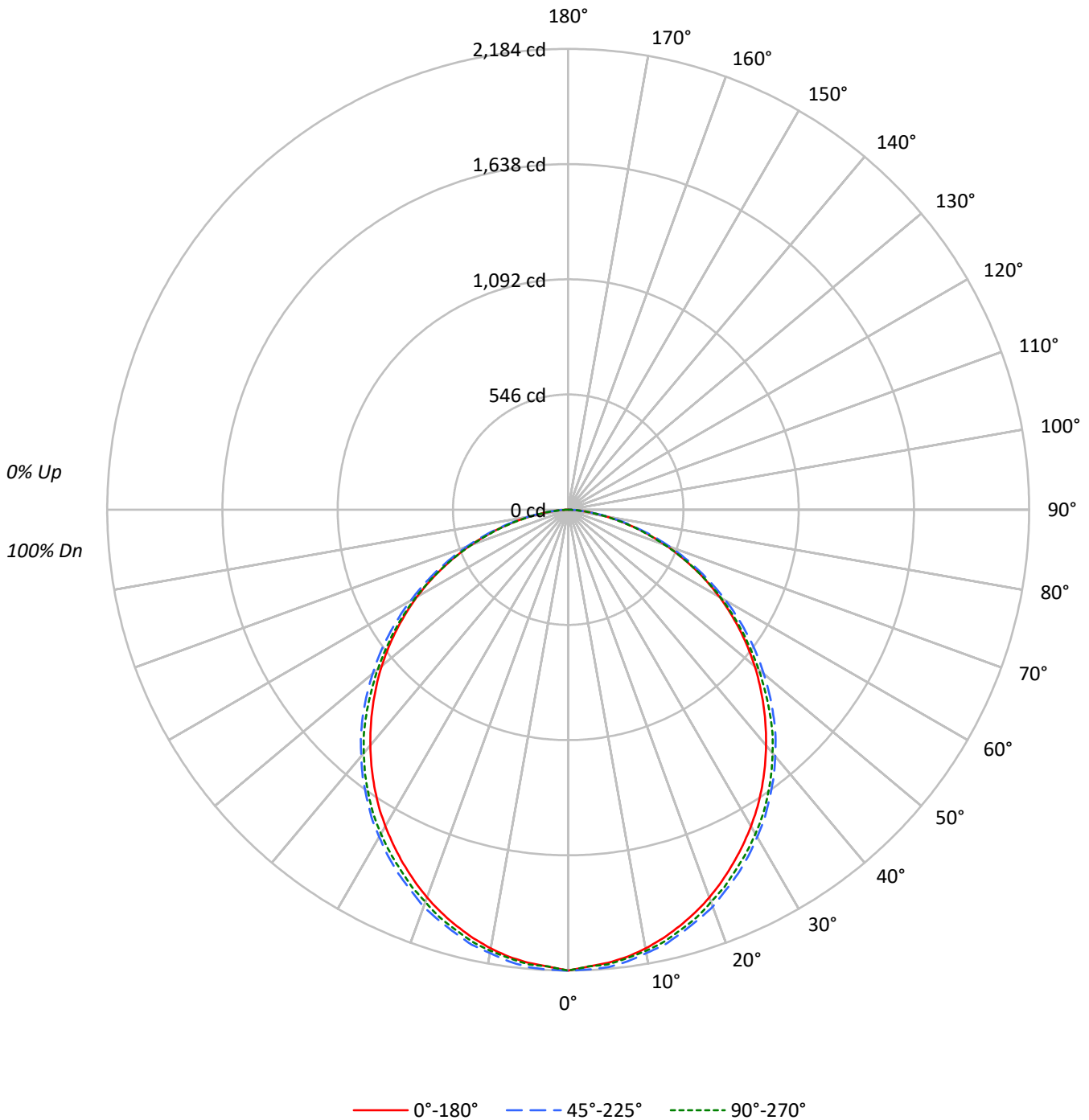
Lumens per Lamp: N/A  
Luminaire Lumens: 5742.9 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	2939	2939	2939
5°	2912	2939	2921
10°	2885	2914	2900
15°	2845	2891	2871
20°	2801	2867	2832
25°	2746	2826	2793
30°	2690	2782	2756
35°	2630	2734	2709
40°	2562	2679	2646
45°	2490	2615	2566
50°	2415	2532	2465
55°	2327	2436	2361
60°	2228	2320	2249
65°	2100	2180	2101
70°	1932	2010	1911
75°	1701	1778	1675
80°	1382	1443	1367
85°	963	1027	1002



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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°	1030.4	17.9
40°-50°	1042.6	18.2
50°-60°	910.5	15.9
60°-70°	665.4	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°	1658.2	28.9
0°-40°	2688.6	46.8
0°-60°	4641.7	80.8
0°-90°	5742.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5742.9	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°	2043	2056	2076	2088	2061	576
25°	1850	1872	1903	1910	1882	852
35°	1601	1626	1665	1676	1649	1001
45°	1308	1332	1374	1376	1348	1009
55°	992	1012	1038	1024	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°	2184.4	2184.4	2184.4	2184.4	2184.4
2.5°	2167.3	2174.4	2181.7	2184.8	2167.1
5°	2155.9	2160.0	2176.2	2181.2	2162.8
7.5°	2137.3	2143.4	2159.1	2161.4	2143.7
10°	2111.8	2122.7	2133.2	2144.6	2122.9
12.5°	2079.2	2094.0	2111.8	2113.8	2097.5
15°	2042.6	2056.3	2075.6	2088.1	2061.0
17.5°	2001.6	2014.8	2039.9	2042.2	2025.8
20°	1955.9	1972.3	2002.3	2007.6	1978.2
22.5°	1904.0	1926.1	1951.1	1956.1	1934.5
25°	1849.6	1872.4	1903.3	1910.4	1881.5
27.5°	1792.7	1814.6	1849.4	1854.4	1830.0
30°	1731.7	1752.2	1790.4	1798.9	1774.1
32.5°	1669.8	1690.3	1732.6	1739.7	1715.6
35°	1601.1	1626.1	1664.6	1676.2	1649.1
37.5°	1531.0	1555.3	1599.0	1609.5	1580.4
40°	1458.4	1482.5	1525.5	1534.2	1506.2
42.5°	1384.2	1408.3	1454.3	1455.7	1432.4
45°	1308.4	1331.6	1374.4	1375.5	1348.5
47.5°	1231.5	1254.9	1293.2	1288.8	1263.3
50°	1153.6	1175.9	1209.4	1200.8	1177.8
52.5°	1073.1	1094.7	1126.3	1112.2	1090.6
55°	992.1	1012.1	1038.5	1023.5	1006.6
57.5°	910.4	930.6	950.9	935.6	921.1
60°	828.0	845.7	862.3	846.9	835.7
62.5°	744.2	759.5	773.8	759.0	748.5
65°	659.6	673.0	684.8	671.2	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)