

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: P488571

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-30-120-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: P488571
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-LD4-2HI-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

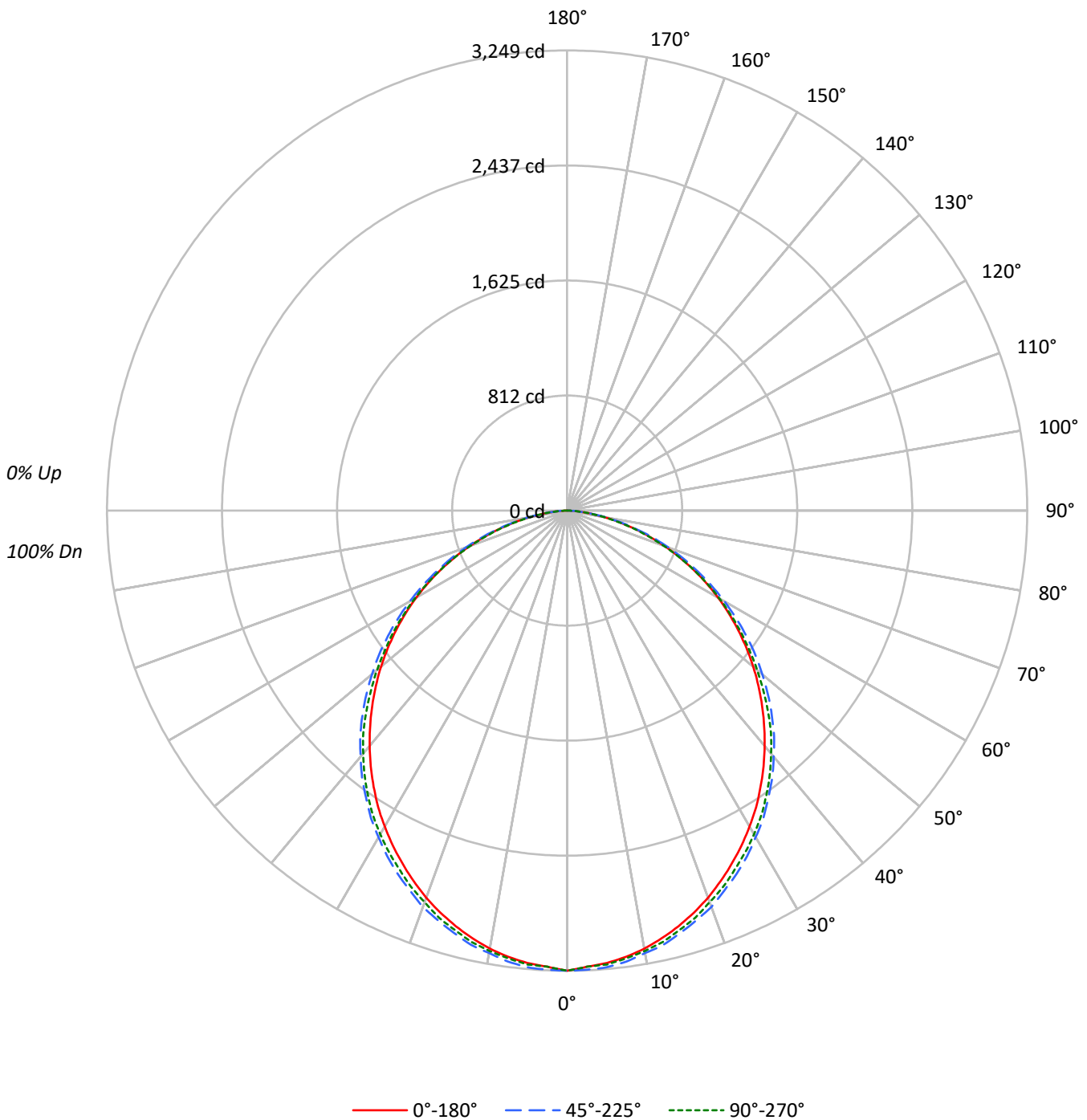
Lumens per Lamp: N/A
Luminaire Lumens: 8541.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P488571

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-30-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488571

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-30-120-EDD

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°	8743	8743	8743
5°	8662	8743	8689
10°	8583	8670	8628
15°	8464	8601	8540
20°	8331	8529	8426
25°	8168	8405	8309
30°	8003	8275	8199
35°	7823	8133	8058
40°	7620	7971	7869
45°	7406	7779	7633
50°	7183	7531	7334
55°	6923	7247	7024
60°	6628	6903	6690
65°	6246	6486	6251
70°	5747	5979	5684
75°	5061	5290	4983
80°	4113	4291	4065
85°	2865	3051	2979



TEST NUMBER: P488571

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	3.6
10°-20°	867.1	10.2
20°-30°	1293.3	15.1
30°-40°	1532.5	17.9
40°-50°	1550.7	18.2
50°-60°	1354.3	15.9
60°-70°	989.7	11.6
70°-80°	526.6	6.2
80°-90°	121.7	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°	2466.4	28.9
0°-40°	3998.9	46.8
0°-60°	6903.9	80.8
0°-90°	8541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8541.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3249	3249	3249	3249	3249	
5°	3207	3213	3237	3244	3217	304
15°	3038	3058	3087	3106	3066	856
25°	2751	2785	2831	2841	2798	1267
35°	2381	2419	2476	2493	2453	1489
45°	1946	1981	2044	2046	2006	1501
55°	1476	1505	1545	1522	1497	1319
65°	981	1001	1019	998	982	971
75°	487	498	509	490	479	518
85°	93	94	99	100	96	117
90°	0	0	0	0	0	



TEST NUMBER: P488571

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-2HI-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3249.0	3249.0	3249.0	3249.0	3249.0
2.5°	3223.6	3234.1	3244.9	3249.7	3223.3
5°	3206.7	3212.8	3236.8	3244.3	3216.8
7.5°	3178.9	3188.1	3211.4	3214.8	3188.4
10°	3141.0	3157.3	3172.8	3189.8	3157.6
12.5°	3092.6	3114.6	3141.0	3144.1	3119.7
15°	3038.1	3058.4	3087.2	3105.8	3065.5
17.5°	2977.2	2996.8	3034.0	3037.4	3013.1
20°	2909.1	2933.5	2978.2	2986.0	2942.3
22.5°	2832.0	2864.8	2902.0	2909.5	2877.3
25°	2751.1	2784.9	2830.9	2841.4	2798.4
27.5°	2666.4	2698.9	2750.7	2758.2	2721.9
30°	2575.7	2606.2	2663.0	2675.6	2638.7
32.5°	2483.6	2514.1	2577.1	2587.6	2551.7
35°	2381.4	2418.6	2475.8	2493.1	2452.8
37.5°	2277.1	2313.4	2378.4	2393.9	2350.6
40°	2169.2	2205.0	2269.0	2281.9	2240.2
42.5°	2058.8	2094.7	2163.1	2165.1	2130.6
45°	1946.1	1980.6	2044.2	2045.9	2005.7
47.5°	1831.7	1866.5	1923.4	1917.0	1879.1
50°	1715.9	1749.1	1798.8	1786.0	1751.8
52.5°	1596.1	1628.2	1675.3	1654.3	1622.1
55°	1475.6	1505.3	1544.6	1522.3	1497.2
57.5°	1354.0	1384.2	1414.3	1391.6	1369.9
60°	1231.5	1257.9	1282.6	1259.6	1243.0
62.5°	1106.9	1129.6	1150.9	1128.9	1113.4
65°	981.0	1001.0	1018.6	998.3	981.7
67.5°	855.7	872.7	888.9	867.9	850.7
70°	730.5	745.1	759.9	738.3	722.4
72.5°	606.9	619.8	633.0	612.0	598.1
75°	486.8	497.9	508.8	490.2	479.3
77.5°	372.0	381.5	388.9	377.1	366.6
80°	265.4	272.5	276.9	272.2	262.3
82.5°	170.6	175.7	178.1	177.7	171.3
85°	92.8	94.4	98.8	99.9	96.5
87.5°	35.9	38.3	39.3	42.3	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)