

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: P488625

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3LO-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: P488625
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-LD4-3LO-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

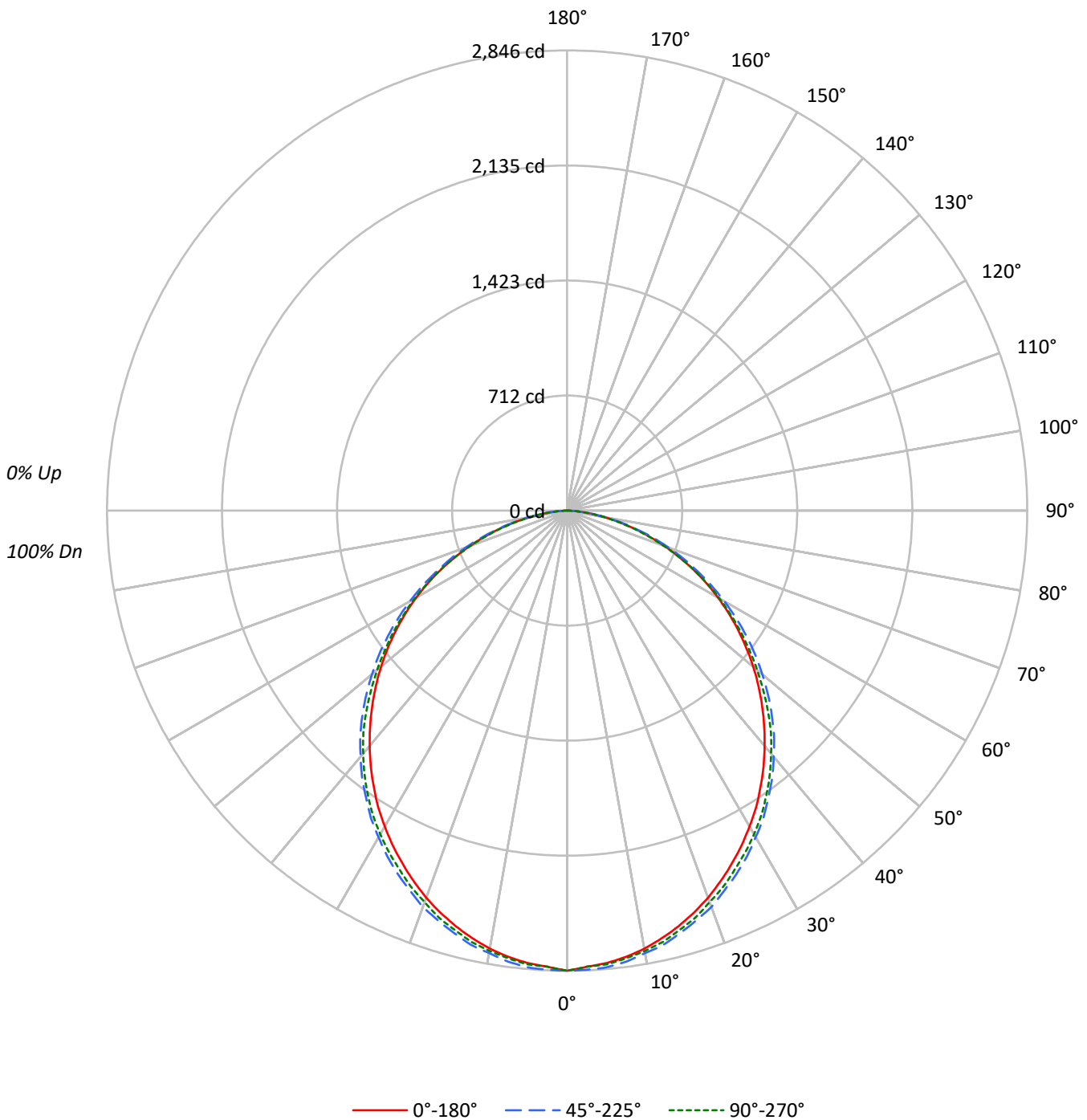
Lumens per Lamp: N/A
Luminaire Lumens: 7482.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	7658	7658	7658
5°	7587	7659	7611
10°	7518	7594	7558
15°	7414	7534	7481
20°	7297	7470	7381
25°	7155	7363	7278
30°	7010	7248	7182
35°	6852	7124	7058
40°	6674	6982	6893
45°	6487	6814	6686
50°	6292	6596	6424
55°	6064	6348	6153
60°	5806	6047	5860
65°	5472	5681	5475
70°	5035	5238	4978
75°	4433	4634	4366
80°	3603	3758	3561
85°	2507	2674	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.6
10°-20°	759.5	10.2
20°-30°	1132.8	15.1
30°-40°	1342.4	17.9
40°-50°	1358.3	18.2
50°-60°	1186.3	15.9
60°-70°	866.9	11.6
70°-80°	461.3	6.2
80°-90°	106.6	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°	2160.4	28.9
0°-40°	3502.7	46.8
0°-60°	6047.3	80.8
0°-90°	7482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2846	2846	2846	2846	2846	
5°	2809	2814	2835	2842	2818	266
15°	2661	2679	2704	2720	2685	750
25°	2410	2439	2480	2489	2451	1110
35°	2086	2119	2169	2184	2148	1304
45°	1705	1735	1791	1792	1757	1315
55°	1292	1319	1353	1333	1312	1155
65°	859	877	892	874	860	850
75°	426	436	446	429	420	453
85°	81	83	87	88	84	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2845.9	2845.9	2845.9	2845.9	2845.9
2.5°	2823.6	2832.8	2842.3	2846.5	2823.4
5°	2808.8	2814.2	2835.2	2841.7	2817.7
7.5°	2784.5	2792.5	2813.0	2815.9	2792.8
10°	2751.3	2765.5	2779.2	2794.0	2765.8
12.5°	2708.9	2728.2	2751.3	2754.0	2732.6
15°	2661.2	2679.0	2704.2	2720.5	2685.2
17.5°	2607.8	2625.0	2657.6	2660.6	2639.2
20°	2548.2	2569.5	2608.7	2615.5	2577.3
22.5°	2480.6	2509.3	2542.0	2548.5	2520.3
25°	2409.7	2439.4	2479.7	2488.9	2451.2
27.5°	2335.6	2364.1	2409.4	2415.9	2384.2
30°	2256.1	2282.8	2332.6	2343.6	2311.3
32.5°	2175.5	2202.2	2257.3	2266.5	2235.1
35°	2085.9	2118.6	2168.7	2183.8	2148.5
37.5°	1994.6	2026.3	2083.3	2096.9	2059.0
40°	1900.0	1931.5	1987.5	1998.8	1962.3
42.5°	1803.4	1834.8	1894.7	1896.5	1866.2
45°	1704.6	1734.9	1790.6	1792.1	1756.8
47.5°	1604.4	1634.9	1684.8	1679.1	1645.9
50°	1503.0	1532.1	1575.6	1564.4	1534.4
52.5°	1398.0	1426.2	1467.4	1449.0	1420.9
55°	1292.5	1318.6	1353.0	1333.4	1311.5
57.5°	1186.0	1212.4	1238.8	1218.9	1200.0
60°	1078.7	1101.8	1123.5	1103.3	1088.8
62.5°	969.6	989.4	1008.1	988.9	975.2
65°	859.3	876.8	892.2	874.4	859.9
67.5°	749.6	764.4	778.6	760.2	745.1
70°	639.9	652.6	665.7	646.7	632.7
72.5°	531.6	542.9	554.5	536.1	523.9
75°	426.4	436.2	445.7	429.3	419.9
77.5°	325.9	334.2	340.7	330.3	321.1
80°	232.5	238.7	242.5	238.4	229.8
82.5°	149.4	153.9	156.0	155.7	150.0
85°	81.2	82.7	86.6	87.5	84.5
87.5°	31.4	33.5	34.4	37.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)