

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: P488628

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-27-120-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: P488628
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-LD4-3STD-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

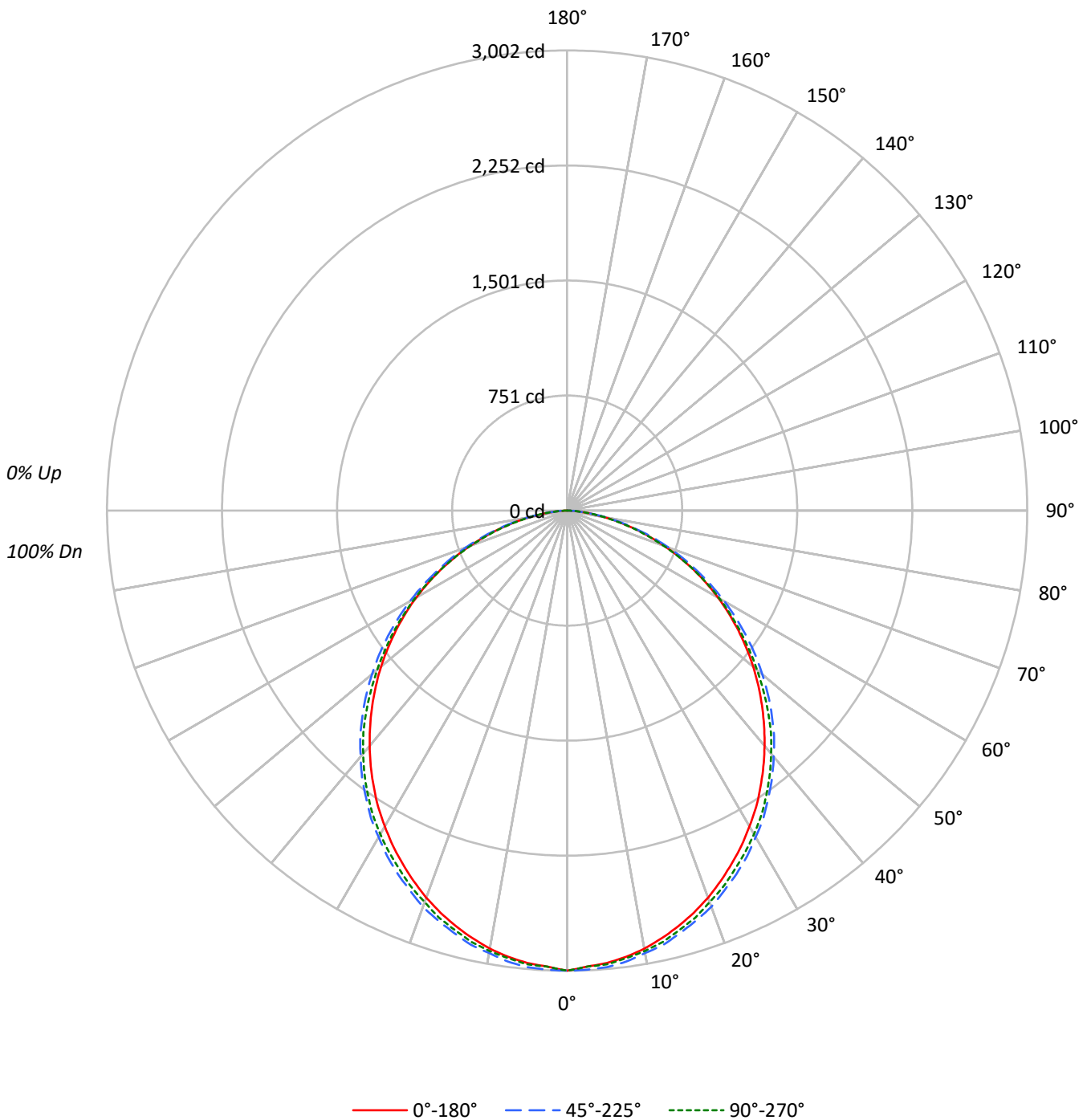
Lumens per Lamp: N/A
Luminaire Lumens: 7891.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8077	8077	8077
5°	8002	8077	8027
10°	7929	8009	7971
15°	7819	7945	7890
20°	7696	7879	7784
25°	7546	7765	7676
30°	7394	7644	7574
35°	7227	7514	7444
40°	7039	7363	7270
45°	6842	7187	7051
50°	6636	6957	6775
55°	6395	6694	6489
60°	6123	6377	6180
65°	5771	5992	5775
70°	5309	5523	5250
75°	4676	4887	4604
80°	3800	3964	3756
85°	2646	2819	2751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.7	3.6
10°-20°	801.0	10.2
20°-30°	1194.7	15.1
30°-40°	1415.8	17.9
40°-50°	1432.5	18.2
50°-60°	1251.1	15.9
60°-70°	914.3	11.6
70°-80°	486.5	6.2
80°-90°	112.4	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°	2278.4	28.9
0°-40°	3694.2	46.8
0°-60°	6377.8	80.8
0°-90°	7891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3002	3002	3002	3002	3002	
5°	2962	2968	2990	2997	2972	281
15°	2807	2825	2852	2869	2832	791
25°	2541	2573	2615	2625	2585	1171
35°	2200	2234	2287	2303	2266	1376
45°	1798	1830	1888	1890	1853	1387
55°	1363	1391	1427	1406	1383	1219
65°	906	925	941	922	907	897
75°	450	460	470	453	443	478
85°	86	87	91	92	89	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3001.5	3001.5	3001.5	3001.5	3001.5
2.5°	2978.0	2987.7	2997.7	3002.1	2977.7
5°	2962.4	2968.0	2990.2	2997.1	2971.7
7.5°	2936.7	2945.2	2966.7	2969.9	2945.5
10°	2901.7	2916.7	2931.1	2946.7	2917.0
12.5°	2857.0	2877.3	2901.7	2904.5	2882.0
15°	2806.6	2825.4	2852.0	2869.2	2832.0
17.5°	2750.3	2768.5	2802.9	2806.0	2783.5
20°	2687.5	2710.0	2751.3	2758.5	2718.1
22.5°	2616.2	2646.5	2680.9	2687.8	2658.1
25°	2541.4	2572.7	2615.3	2624.9	2585.2
27.5°	2463.3	2493.3	2541.1	2548.0	2514.6
30°	2379.5	2407.6	2460.1	2471.7	2437.6
32.5°	2294.4	2322.5	2380.7	2390.4	2357.3
35°	2200.0	2234.4	2287.2	2303.2	2265.9
37.5°	2103.6	2137.1	2197.1	2211.5	2171.5
40°	2003.9	2037.0	2096.1	2108.0	2069.6
42.5°	1901.9	1935.1	1998.3	2000.1	1968.2
45°	1797.8	1829.7	1888.5	1890.1	1852.8
47.5°	1692.1	1724.3	1776.9	1770.9	1735.9
50°	1585.2	1615.8	1661.8	1649.9	1618.3
52.5°	1474.5	1504.2	1547.6	1528.2	1498.5
55°	1363.1	1390.7	1426.9	1406.3	1383.1
57.5°	1250.9	1278.7	1306.5	1285.6	1265.6
60°	1137.7	1162.1	1184.9	1163.6	1148.3
62.5°	1022.6	1043.5	1063.2	1042.9	1028.5
65°	906.3	924.7	941.0	922.2	906.9
67.5°	790.5	806.2	821.2	801.8	785.9
70°	674.8	688.3	702.0	682.0	667.3
72.5°	560.7	572.6	584.8	565.4	552.6
75°	449.7	460.0	470.0	452.8	442.8
77.5°	343.7	352.4	359.3	348.4	338.7
80°	245.2	251.7	255.8	251.4	242.4
82.5°	157.6	162.3	164.5	164.2	158.2
85°	85.7	87.2	91.3	92.3	89.1
87.5°	33.1	35.3	36.3	39.1	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)