

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: P489519

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-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: P489519
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-LD4-4LO-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

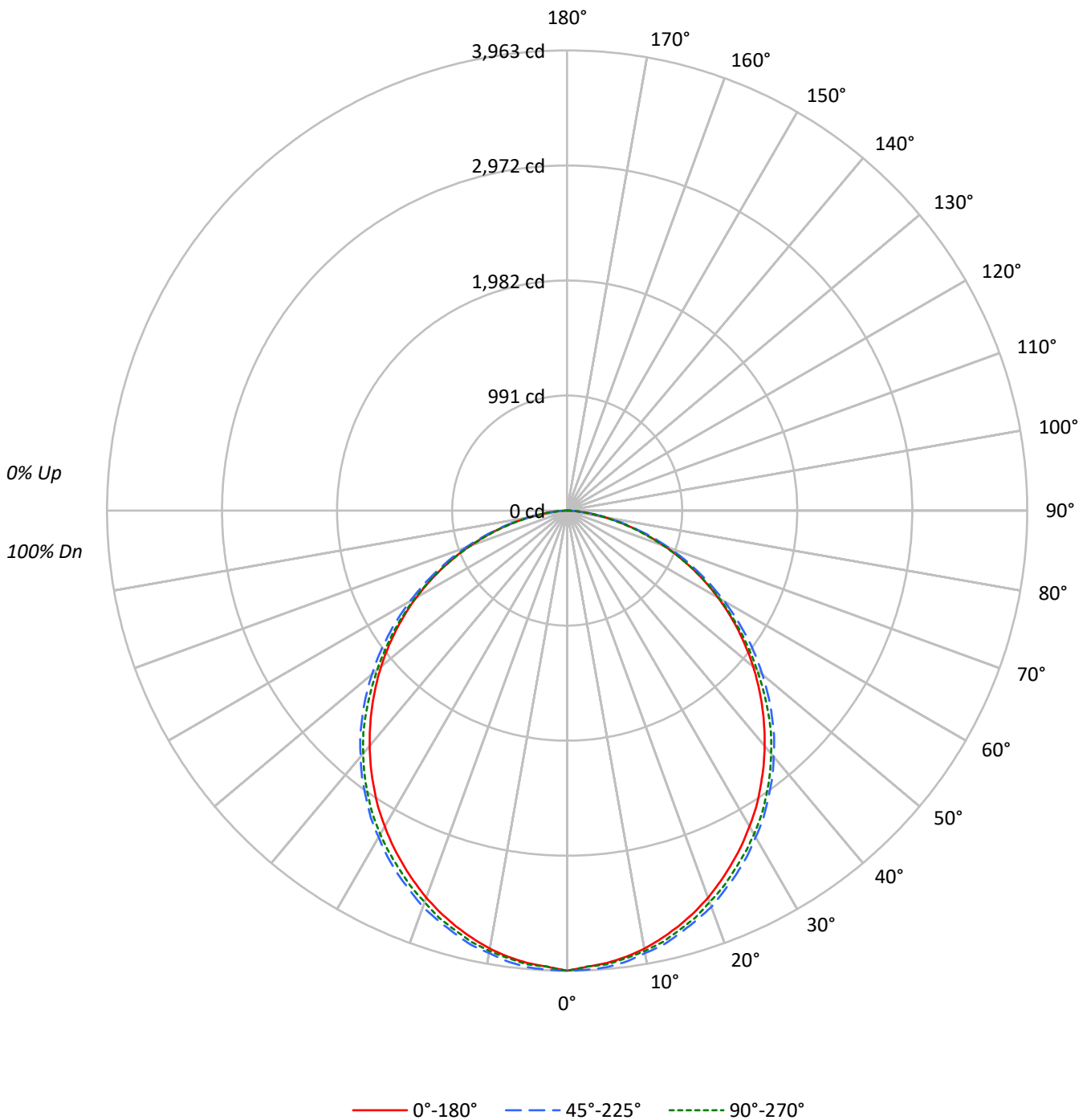
Lumens per Lamp: N/A
Luminaire Lumens: 10417.8 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	5332	5332	5332
5°	5282	5332	5299
10°	5234	5287	5262
15°	5161	5245	5208
20°	5080	5201	5138
25°	4981	5126	5067
30°	4881	5046	5000
35°	4771	4960	4914
40°	4647	4861	4799
45°	4516	4744	4655
50°	4381	4592	4472
55°	4221	4419	4283
60°	4042	4209	4080
65°	3809	3955	3812
70°	3505	3646	3466
75°	3086	3226	3039
80°	2508	2617	2479
85°	1746	1862	1817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	3.6
10°-20°	1057.6	10.2
20°-30°	1577.3	15.1
30°-40°	1869.1	17.9
40°-50°	1891.2	18.2
50°-60°	1651.7	15.9
60°-70°	1207.0	11.6
70°-80°	642.2	6.2
80°-90°	148.4	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°	3008.0	28.9
0°-40°	4877.1	46.8
0°-60°	8420.1	80.8
0°-90°	10417.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10417.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3963	3963	3963	3963	3963	
5°	3911	3918	3948	3957	3923	371
15°	3705	3730	3765	3788	3739	1045
25°	3355	3396	3453	3466	3413	1546
35°	2904	2950	3020	3041	2992	1816
45°	2374	2416	2493	2495	2446	1831
55°	1800	1836	1884	1857	1826	1609
65°	1196	1221	1242	1218	1197	1184
75°	594	607	620	598	585	631
85°	113	115	121	122	118	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3962.6	3962.6	3962.6	3962.6	3962.6
2.5°	3931.6	3944.4	3957.6	3963.4	3931.2
5°	3911.0	3918.4	3947.7	3956.8	3923.3
7.5°	3877.1	3888.2	3916.7	3920.9	3888.7
10°	3830.9	3850.7	3869.7	3890.3	3851.1
12.5°	3771.8	3798.7	3830.9	3834.6	3804.9
15°	3705.4	3730.1	3765.2	3787.9	3738.8
17.5°	3631.0	3655.0	3700.4	3704.5	3674.8
20°	3548.1	3577.8	3632.3	3641.8	3588.5
22.5°	3453.9	3494.0	3539.4	3548.5	3509.2
25°	3355.3	3396.5	3452.7	3465.5	3413.1
27.5°	3252.0	3291.7	3354.8	3363.9	3319.7
30°	3141.4	3178.6	3247.9	3263.2	3218.2
32.5°	3029.1	3066.3	3143.0	3155.8	3112.1
35°	2904.4	2949.8	3019.6	3040.7	2991.5
37.5°	2777.3	2821.4	2900.7	2919.7	2866.8
40°	2645.6	2689.3	2767.4	2783.0	2732.3
42.5°	2511.0	2554.7	2638.1	2640.6	2598.5
45°	2373.5	2415.6	2493.2	2495.3	2446.2
47.5°	2233.9	2276.5	2345.8	2338.0	2291.7
50°	2092.8	2133.2	2193.9	2178.2	2136.5
52.5°	1946.6	1985.8	2043.2	2017.6	1978.4
55°	1799.6	1836.0	1883.8	1856.6	1826.0
57.5°	1651.4	1688.2	1724.9	1697.2	1670.8
60°	1502.0	1534.2	1564.3	1536.2	1516.0
62.5°	1350.0	1377.7	1403.7	1376.9	1357.9
65°	1196.4	1220.8	1242.3	1217.5	1197.3
67.5°	1043.7	1064.3	1084.2	1058.6	1037.5
70°	890.9	908.7	926.9	900.4	881.0
72.5°	740.2	755.9	772.0	746.4	729.5
75°	593.7	607.3	620.5	597.8	584.6
77.5°	453.7	465.3	474.4	459.9	447.1
80°	323.7	332.3	337.7	331.9	320.0
82.5°	208.1	214.3	217.2	216.7	208.9
85°	113.1	115.2	120.6	121.8	117.7
87.5°	43.8	46.7	47.9	51.6	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)