

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: P489002

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-30-120-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: P489002
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-24-2-INS-A12125-LD4-5HI-30-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

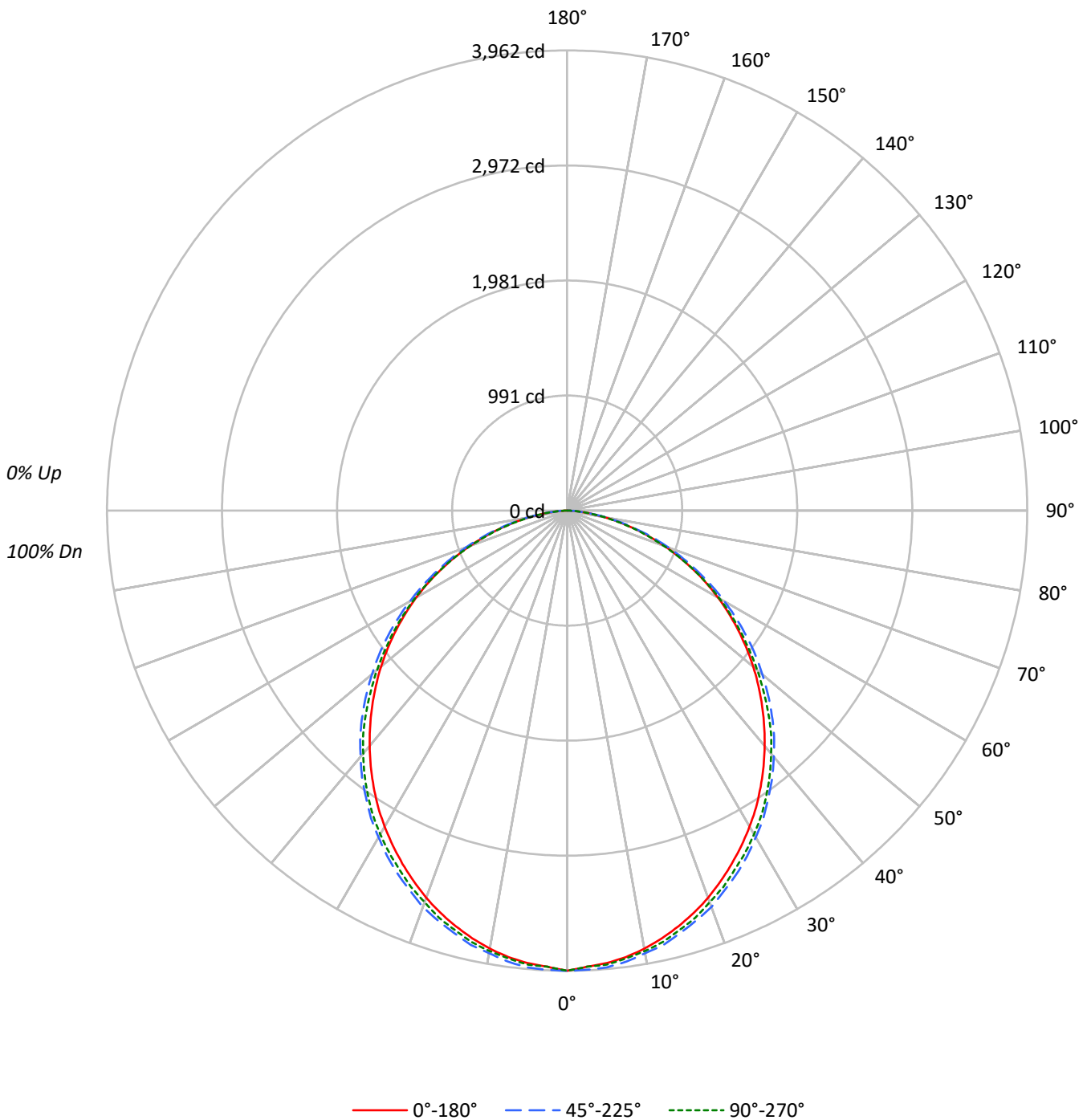
Lumens per Lamp: N/A
Luminaire Lumens: 10417.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	10663	10663	10663
5°	10564	10663	10598
10°	10467	10573	10523
15°	10322	10489	10415
20°	10160	10401	10276
25°	9962	10251	10133
30°	9761	10092	9999
35°	9541	9919	9827
40°	9293	9721	9597
45°	9032	9488	9309
50°	8761	9184	8944
55°	8442	8838	8567
60°	8083	8418	8159
65°	7618	7910	7623
70°	7010	7292	6932
75°	6173	6451	6078
80°	5016	5233	4957
85°	3492	3721	3634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	3.6
10°-20°	1057.5	10.2
20°-30°	1577.2	15.1
30°-40°	1869.0	17.9
40°-50°	1891.2	18.2
50°-60°	1651.7	15.9
60°-70°	1206.9	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°	3007.9	28.9
0°-40°	4876.9	46.8
0°-60°	8419.7	80.8
0°-90°	10417.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10417.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3962	3962	3962	3962	3962	
5°	3911	3918	3948	3957	3923	371
15°	3705	3730	3765	3788	3739	1045
25°	3355	3396	3452	3465	3413	1546
35°	2904	2950	3020	3040	2991	1816
45°	2373	2416	2493	2495	2446	1831
55°	1800	1836	1884	1856	1826	1609
65°	1196	1221	1242	1217	1197	1184
75°	594	607	620	598	585	631
85°	113	115	120	122	118	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3962.4	3962.4	3962.4	3962.4	3962.4
2.5°	3931.4	3944.2	3957.4	3963.2	3931.0
5°	3910.8	3918.2	3947.5	3956.6	3923.2
7.5°	3876.9	3888.1	3916.5	3920.7	3888.5
10°	3830.7	3850.5	3869.5	3890.1	3850.9
12.5°	3771.6	3798.5	3830.7	3834.4	3804.7
15°	3705.2	3729.9	3765.0	3787.7	3738.6
17.5°	3630.9	3654.8	3700.2	3704.3	3674.6
20°	3547.9	3577.6	3632.1	3641.6	3588.3
22.5°	3453.8	3493.8	3539.2	3548.3	3509.1
25°	3355.1	3396.4	3452.5	3465.3	3412.9
27.5°	3251.9	3291.5	3354.7	3363.8	3319.6
30°	3141.2	3178.4	3247.8	3263.0	3218.0
32.5°	3029.0	3066.1	3142.9	3155.7	3111.9
35°	2904.3	2949.7	3019.5	3040.5	2991.4
37.5°	2777.1	2821.3	2900.6	2919.6	2866.7
40°	2645.4	2689.2	2767.2	2782.9	2732.1
42.5°	2510.8	2554.6	2638.0	2640.5	2598.4
45°	2373.4	2415.5	2493.1	2495.2	2446.0
47.5°	2233.8	2276.4	2345.7	2337.9	2291.6
50°	2092.6	2133.1	2193.8	2178.1	2136.4
52.5°	1946.5	1985.7	2043.1	2017.5	1978.3
55°	1799.5	1835.9	1883.8	1856.5	1826.0
57.5°	1651.3	1688.1	1724.8	1697.2	1670.7
60°	1501.9	1534.1	1564.2	1536.2	1515.9
62.5°	1350.0	1377.6	1403.6	1376.8	1357.8
65°	1196.4	1220.7	1242.2	1217.4	1197.2
67.5°	1043.6	1064.3	1084.1	1058.5	1037.4
70°	890.9	908.6	926.8	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	474.3	459.9	447.1
80°	323.7	332.3	337.7	331.9	319.9
82.5°	208.1	214.3	217.2	216.7	208.9
85°	113.1	115.2	120.5	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)