

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: P489543

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5HI-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: P489543
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-LD4-5HI-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

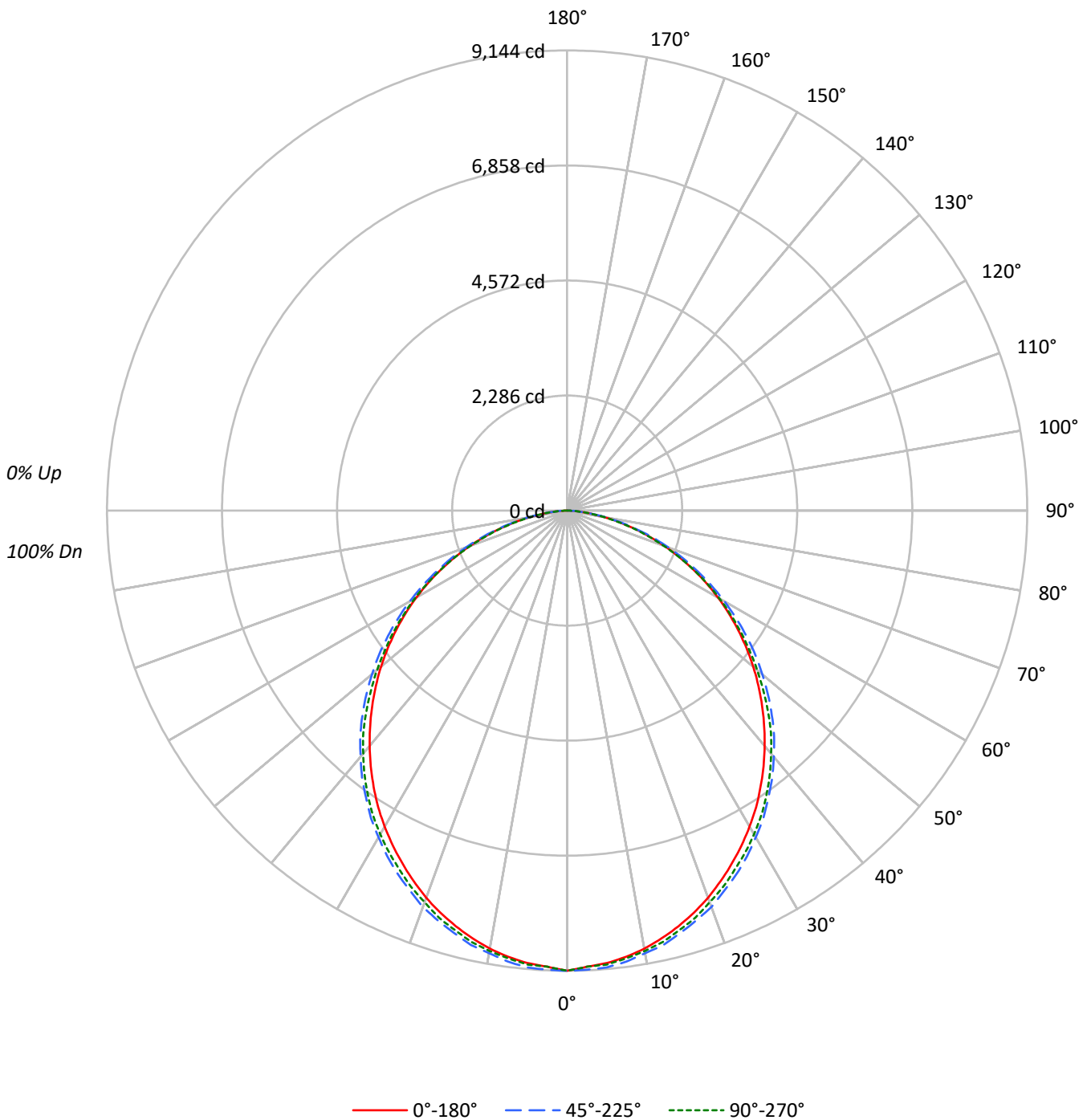
Lumens per Lamp: N/A
Luminaire Lumens: 24041.1 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 216
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°	12304	12304	12304
5°	12190	12304	12228
10°	12078	12201	12142
15°	11911	12103	12018
20°	11724	12002	11857
25°	11495	11829	11693
30°	11263	11645	11538
35°	11009	11446	11339
40°	10723	11217	11075
45°	10422	10948	10741
50°	10109	10598	10320
55°	9742	10198	9885
60°	9327	9714	9414
65°	8790	9127	8796
70°	8088	8414	7998
75°	7122	7444	7013
80°	5787	6038	5721
85°	4031	4295	4191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.2	3.6
10°-20°	2440.5	10.2
20°-30°	3639.9	15.1
30°-40°	4313.3	17.9
40°-50°	4364.4	18.2
50°-60°	3811.7	15.9
60°-70°	2785.4	11.6
70°-80°	1482.1	6.2
80°-90°	342.6	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°	6941.6	28.9
0°-40°	11254.9	46.8
0°-60°	19431.1	80.8
0°-90°	24041.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24041.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9144	9144	9144	9144	9144	
5°	9025	9042	9110	9131	9054	856
15°	8551	8608	8689	8741	8628	2411
25°	7743	7838	7968	7997	7876	3567
35°	6702	6807	6968	7017	6904	4192
45°	5477	5574	5754	5758	5645	4226
55°	4153	4237	4347	4284	4214	3712
65°	2761	2817	2867	2810	2763	2732
75°	1370	1402	1432	1380	1349	1457
85°	261	266	278	281	272	331
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9144.4	9144.4	9144.4	9144.4	9144.4
2.5°	9072.9	9102.5	9132.9	9146.3	9072.0
5°	9025.3	9042.4	9110.1	9131.0	9053.9
7.5°	8947.2	8972.9	9038.6	9048.2	8973.8
10°	8840.5	8886.2	8930.0	8977.6	8887.1
12.5°	8704.2	8766.1	8840.5	8849.0	8780.4
15°	8550.8	8608.0	8689.0	8741.4	8628.0
17.5°	8379.3	8434.6	8539.4	8548.9	8480.3
20°	8187.8	8256.4	8382.2	8404.1	8281.2
22.5°	7970.6	8063.0	8167.8	8188.8	8098.3
25°	7742.9	7838.2	7967.7	7997.3	7876.3
27.5°	7504.7	7596.2	7741.9	7762.9	7661.0
30°	7249.4	7335.1	7495.2	7530.4	7426.6
32.5°	6990.2	7076.0	7253.2	7282.7	7181.7
35°	6702.5	6807.3	6968.3	7016.9	6903.5
37.5°	6409.1	6511.0	6693.9	6737.8	6615.8
40°	6105.1	6206.1	6386.2	6422.4	6305.2
42.5°	5794.6	5895.5	6088.0	6093.7	5996.5
45°	5477.3	5574.5	5753.6	5758.3	5645.0
47.5°	5155.3	5253.4	5413.5	5395.4	5288.6
50°	4829.4	4922.8	5062.8	5026.6	4930.4
52.5°	4492.2	4582.7	4715.1	4656.0	4565.5
55°	4153.0	4236.8	4347.3	4284.5	4214.0
57.5°	3811.0	3895.7	3980.5	3916.7	3855.7
60°	3466.1	3540.4	3609.9	3545.1	3498.5
62.5°	3115.5	3179.3	3239.3	3177.4	3133.6
65°	2761.0	2817.2	2866.8	2809.6	2762.9
67.5°	2408.5	2456.2	2501.9	2442.8	2394.2
70°	2056.0	2097.0	2138.9	2077.9	2033.1
72.5°	1708.3	1744.5	1781.6	1722.6	1683.5
75°	1370.0	1401.5	1432.0	1379.6	1349.1
77.5°	1047.1	1073.7	1094.7	1061.4	1031.8
80°	746.9	767.0	779.3	766.0	738.4
82.5°	480.2	494.5	501.1	500.2	482.1
85°	261.1	265.8	278.2	281.1	271.5
87.5°	101.0	107.7	110.5	119.1	109.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)