

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: P489559

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5LO-40-120-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: P489559
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-LD4-5LO-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

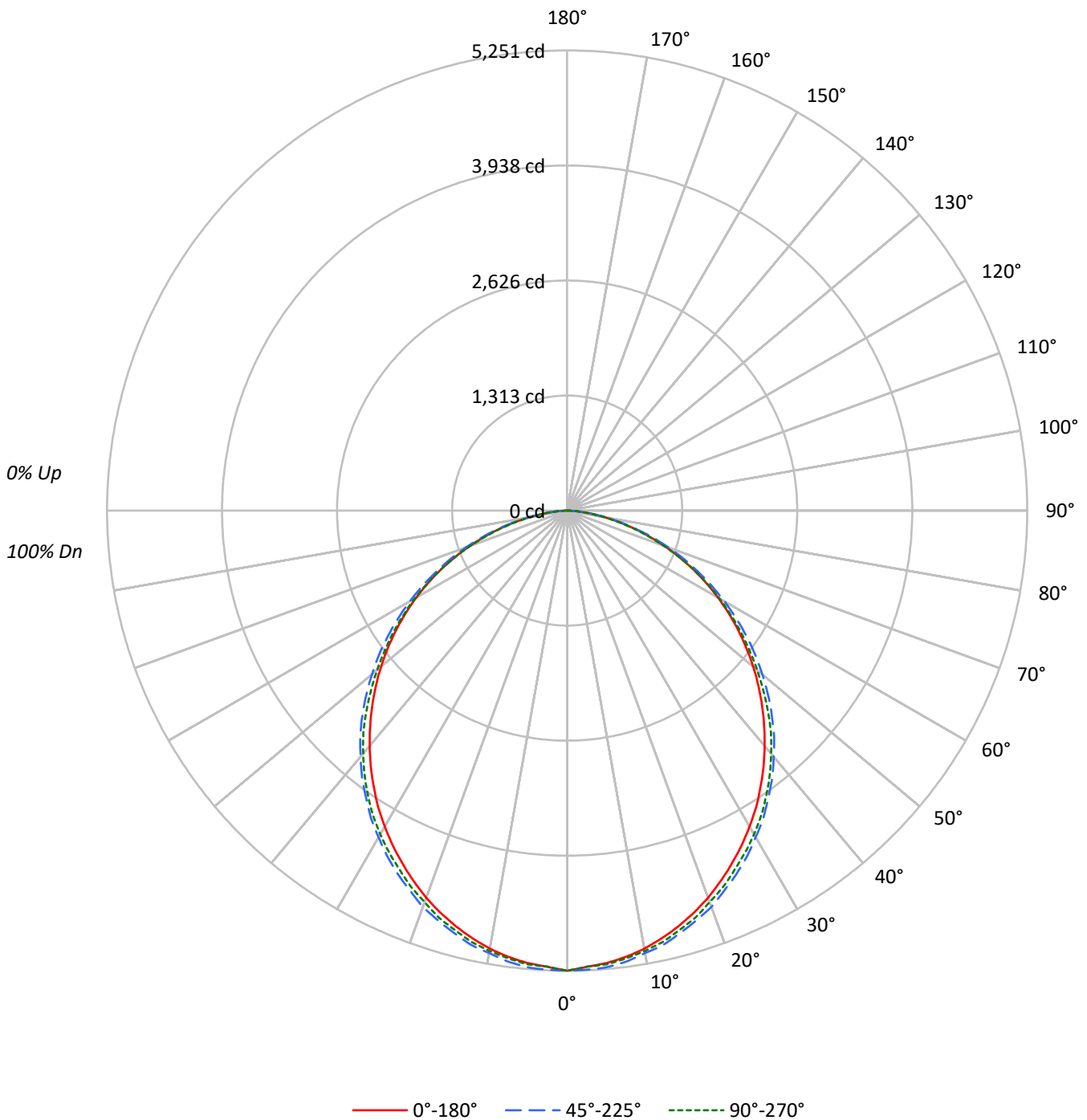
Lumens per Lamp: N/A
Luminaire Lumens: 13804.6 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	7065	7065	7065
5°	6999	7065	7022
10°	6935	7006	6972
15°	6839	6950	6901
20°	6732	6892	6809
25°	6600	6792	6714
30°	6467	6687	6625
35°	6321	6572	6511
40°	6157	6441	6359
45°	5985	6287	6168
50°	5805	6085	5926
55°	5594	5856	5676
60°	5356	5578	5406
65°	5047	5241	5051
70°	4644	4832	4592
75°	4090	4274	4027
80°	3323	3467	3285
85°	2314	2465	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.5	3.6
10°-20°	1401.4	10.2
20°-30°	2090.1	15.1
30°-40°	2476.7	17.9
40°-50°	2506.1	18.2
50°-60°	2188.7	15.9
60°-70°	1599.4	11.6
70°-80°	851.0	6.2
80°-90°	196.7	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°	3985.9	28.9
0°-40°	6462.7	46.8
0°-60°	11157.5	80.8
0°-90°	13804.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13804.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5251	5251	5251	5251	5251	
5°	5182	5192	5231	5243	5199	491
15°	4910	4943	4989	5019	4954	1384
25°	4446	4501	4575	4592	4523	2048
35°	3849	3909	4001	4029	3964	2407
45°	3145	3201	3304	3306	3241	2426
55°	2385	2433	2496	2460	2420	2132
65°	1585	1618	1646	1613	1586	1569
75°	787	805	822	792	775	836
85°	150	153	160	161	156	190
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5250.8	5250.8	5250.8	5250.8	5250.8
2.5°	5209.7	5226.7	5244.2	5251.9	5209.2
5°	5182.4	5192.2	5231.1	5243.1	5198.8
7.5°	5137.5	5152.3	5190.1	5195.5	5152.9
10°	5076.3	5102.5	5127.7	5155.0	5103.1
12.5°	4998.0	5033.6	5076.3	5081.2	5041.8
15°	4910.0	4942.8	4989.3	5019.4	4954.3
17.5°	4811.5	4843.2	4903.4	4908.9	4869.5
20°	4701.5	4740.9	4813.1	4825.7	4755.1
22.5°	4576.8	4629.9	4690.0	4702.1	4650.1
25°	4446.0	4500.7	4575.1	4592.1	4522.6
27.5°	4309.3	4361.8	4445.5	4457.5	4399.0
30°	4162.7	4211.9	4303.8	4324.0	4264.4
32.5°	4013.9	4063.1	4164.8	4181.8	4123.8
35°	3848.6	3908.8	4001.3	4029.2	3964.1
37.5°	3680.1	3738.7	3843.7	3868.9	3798.9
40°	3505.6	3563.6	3667.0	3687.8	3620.5
42.5°	3327.3	3385.3	3495.8	3499.1	3443.3
45°	3145.1	3200.9	3303.8	3306.5	3241.4
47.5°	2960.2	3016.5	3108.5	3098.1	3036.8
50°	2773.1	2826.7	2907.1	2886.3	2831.1
52.5°	2579.4	2631.4	2707.4	2673.5	2621.6
55°	2384.7	2432.8	2496.3	2460.2	2419.7
57.5°	2188.3	2237.0	2285.7	2249.0	2214.0
60°	1990.2	2032.9	2072.8	2035.6	2008.8
62.5°	1788.9	1825.6	1860.0	1824.5	1799.3
65°	1585.4	1617.7	1646.1	1613.3	1586.5
67.5°	1383.0	1410.3	1436.6	1402.7	1374.8
70°	1180.6	1204.1	1228.2	1193.2	1167.4
72.5°	980.9	1001.7	1023.0	989.1	966.7
75°	786.7	804.7	822.2	792.2	774.7
77.5°	601.2	616.5	628.6	609.4	592.5
80°	428.9	440.4	447.5	439.8	424.0
82.5°	275.7	283.9	287.8	287.2	276.8
85°	149.9	152.6	159.7	161.4	155.9
87.5°	58.0	61.8	63.5	68.4	62.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)