

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: P489531

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-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: P489531
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-LD4-4STD-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

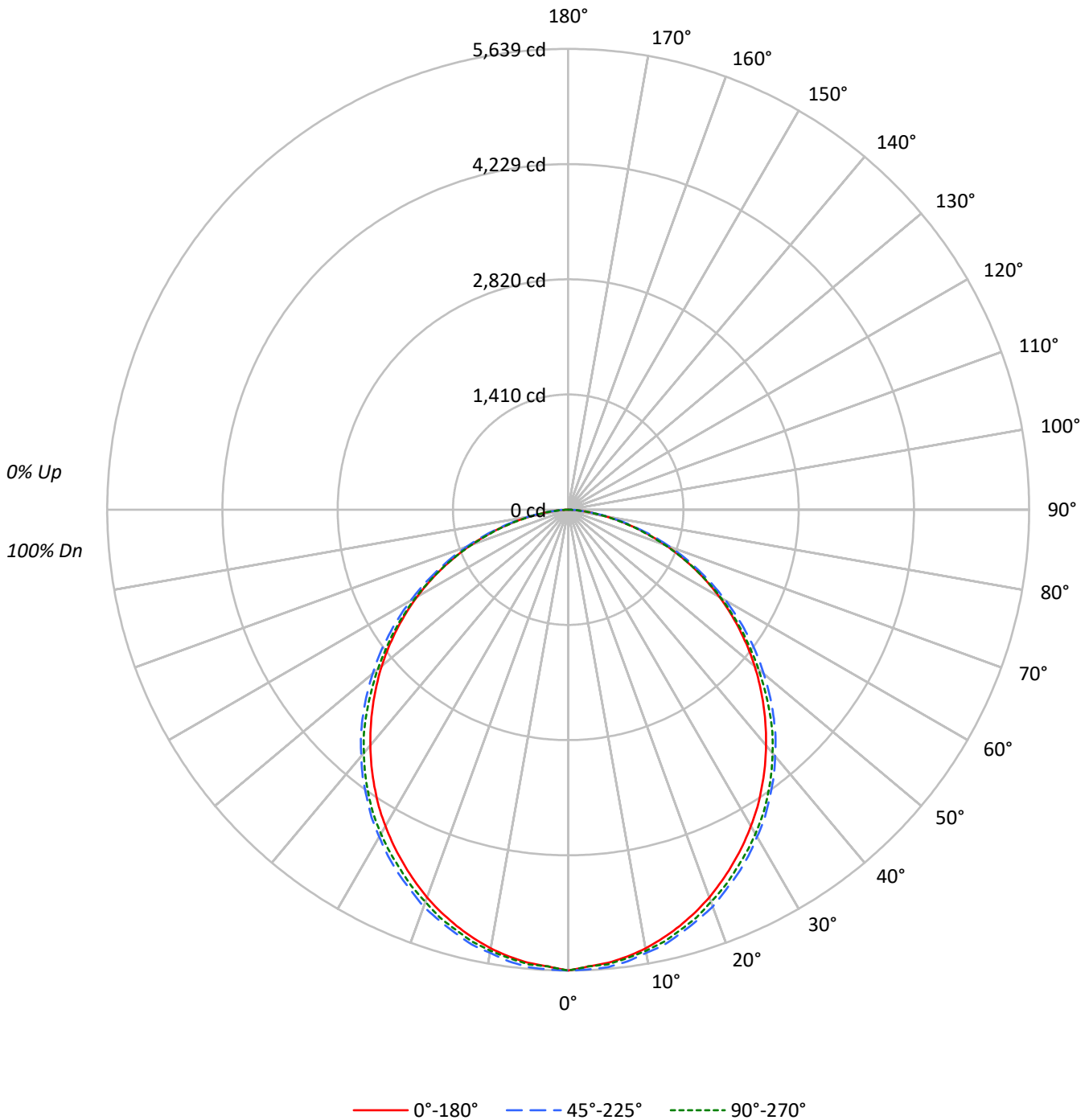
Lumens per Lamp: N/A
Luminaire Lumens: 14825.3 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P489531

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-30-120-EDD

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	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°	7587	7587	7587
5°	7517	7588	7541
10°	7448	7524	7488
15°	7345	7464	7411
20°	7230	7401	7312
25°	7089	7294	7211
30°	6945	7181	7115
35°	6789	7058	6993
40°	6613	6917	6829
45°	6427	6751	6624
50°	6234	6535	6364
55°	6008	6289	6096
60°	5752	5990	5806
65°	5421	5628	5424
70°	4988	5189	4932
75°	4392	4590	4325
80°	3569	3724	3528
85°	2485	2649	2584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.1	3.6
10°-20°	1505.0	10.2
20°-30°	2244.6	15.1
30°-40°	2659.9	17.9
40°-50°	2691.4	18.2
50°-60°	2350.5	15.9
60°-70°	1717.7	11.6
70°-80°	913.9	6.2
80°-90°	211.2	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°	4280.7	28.9
0°-40°	6940.5	46.8
0°-60°	11982.5	80.8
0°-90°	14825.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14825.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5639	5639	5639	5639	5639	
5°	5566	5576	5618	5631	5583	528
15°	5273	5308	5358	5390	5321	1487
25°	4775	4834	4913	4932	4857	2200
35°	4133	4198	4297	4327	4257	2585
45°	3378	3438	3548	3551	3481	2606
55°	2561	2613	2681	2642	2599	2289
65°	1703	1737	1768	1733	1704	1685
75°	845	864	883	851	832	898
85°	161	164	172	173	167	204
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5639.0	5639.0	5639.0	5639.0	5639.0
2.5°	5595.0	5613.2	5632.0	5640.2	5594.4
5°	5565.6	5576.2	5617.9	5630.8	5583.2
7.5°	5517.4	5533.3	5573.8	5579.7	5533.9
10°	5451.6	5479.8	5506.8	5536.2	5480.4
12.5°	5367.6	5405.8	5451.6	5456.9	5414.6
15°	5273.0	5308.2	5358.2	5390.5	5320.6
17.5°	5167.2	5201.3	5265.9	5271.8	5229.5
20°	5049.1	5091.4	5169.0	5182.5	5106.7
22.5°	4915.2	4972.2	5036.8	5049.7	4993.9
25°	4774.8	4833.5	4913.4	4931.6	4857.0
27.5°	4627.9	4684.3	4774.2	4787.1	4724.2
30°	4470.4	4523.3	4622.0	4643.8	4579.7
32.5°	4310.6	4363.5	4472.8	4491.0	4428.7
35°	4133.2	4197.8	4297.1	4327.1	4257.2
37.5°	3952.2	4015.1	4127.9	4154.9	4079.7
40°	3764.8	3827.1	3938.1	3960.5	3888.2
42.5°	3573.3	3635.6	3754.3	3757.8	3697.9
45°	3377.7	3437.6	3548.0	3551.0	3481.1
47.5°	3179.1	3239.6	3338.3	3327.1	3261.3
50°	2978.1	3035.7	3122.1	3099.8	3040.4
52.5°	2770.2	2826.0	2907.6	2871.2	2815.4
55°	2561.0	2612.7	2680.9	2642.1	2598.6
57.5°	2350.1	2402.4	2454.7	2415.3	2377.7
60°	2137.4	2183.2	2226.1	2186.2	2157.4
62.5°	1921.2	1960.6	1997.6	1959.4	1932.4
65°	1702.6	1737.3	1767.8	1732.6	1703.8
67.5°	1485.3	1514.6	1542.8	1506.4	1476.4
70°	1267.9	1293.1	1319.0	1281.4	1253.8
72.5°	1053.4	1075.7	1098.7	1062.2	1038.1
75°	844.9	864.2	883.0	850.7	831.9
77.5°	645.7	662.1	675.1	654.5	636.3
80°	460.6	473.0	480.6	472.4	455.3
82.5°	296.1	304.9	309.0	308.4	297.3
85°	161.0	163.9	171.6	173.3	167.4
87.5°	62.3	66.4	68.2	73.4	67.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)