

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: P488613

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-50-120-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: P488613
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-12-4-INS-A12125-LD4-3HI-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

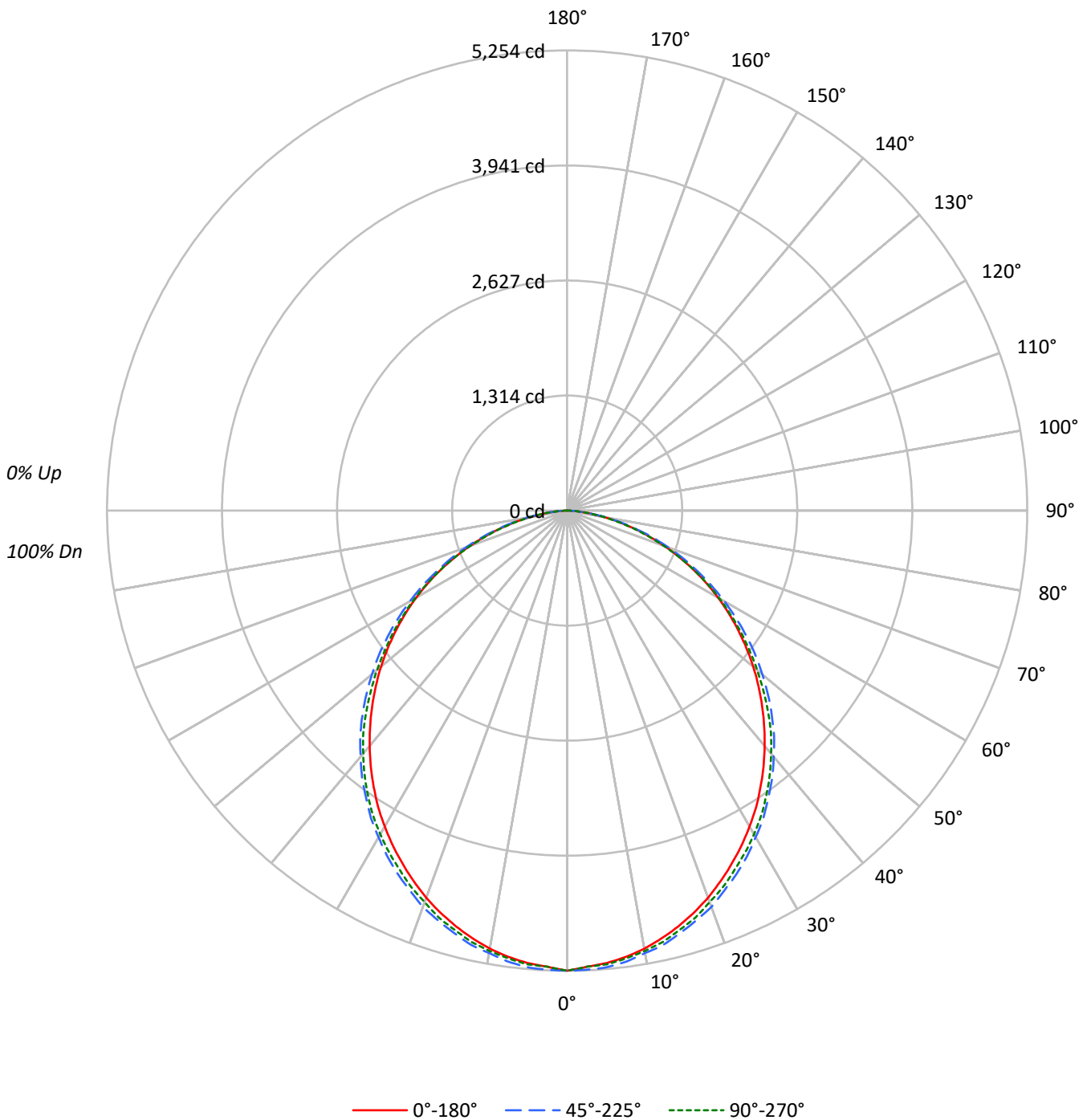
Lumens per Lamp: N/A
Luminaire Lumens: 13812.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	14138	14138	14138
5°	14007	14139	14052
10°	13879	14020	13952
15°	13687	13908	13810
20°	13472	13791	13625
25°	13209	13593	13436
30°	12942	13381	13259
35°	12651	13152	13030
40°	12322	12889	12726
45°	11976	12580	12343
50°	11616	12178	11859
55°	11195	11719	11359
60°	10718	11163	10818
65°	10101	10488	10108
70°	9294	9669	9190
75°	8185	8554	8059
80°	6651	6939	6574
85°	4631	4934	4817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.8	3.6
10°-20°	1402.2	10.2
20°-30°	2091.3	15.1
30°-40°	2478.2	17.9
40°-50°	2507.6	18.2
50°-60°	2190.0	15.9
60°-70°	1600.4	11.6
70°-80°	851.5	6.2
80°-90°	196.8	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°	3988.3	28.9
0°-40°	6466.6	46.8
0°-60°	11164.2	80.8
0°-90°	13812.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13812.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5254	5254	5254	5254	5254	
5°	5186	5195	5234	5246	5202	492
15°	4913	4946	4992	5022	4957	1385
25°	4449	4504	4578	4595	4525	2050
35°	3851	3911	4004	4032	3966	2408
45°	3147	3203	3306	3308	3243	2428
55°	2386	2434	2498	2462	2421	2133
65°	1586	1619	1647	1614	1588	1570
75°	787	805	823	793	775	837
85°	150	153	160	162	156	190
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5253.9	5253.9	5253.9	5253.9	5253.9
2.5°	5212.9	5229.9	5247.4	5255.0	5212.3
5°	5185.5	5195.4	5234.2	5246.3	5201.9
7.5°	5140.6	5155.4	5193.2	5198.6	5156.0
10°	5079.3	5105.6	5130.8	5158.1	5106.1
12.5°	5001.0	5036.6	5079.3	5084.2	5044.8
15°	4912.9	4945.7	4992.3	5022.4	4957.2
17.5°	4814.4	4846.1	4906.3	4911.8	4872.4
20°	4704.3	4743.8	4816.0	4828.6	4758.0
22.5°	4579.5	4632.6	4692.9	4704.9	4652.9
25°	4448.7	4503.5	4577.9	4594.9	4525.3
27.5°	4311.9	4364.4	4448.2	4460.2	4401.6
30°	4165.2	4214.4	4306.4	4326.6	4267.0
32.5°	4016.3	4065.5	4167.3	4184.3	4126.3
35°	3851.0	3911.2	4003.7	4031.6	3966.5
37.5°	3682.4	3740.9	3846.0	3871.2	3801.1
40°	3507.7	3565.8	3669.2	3690.0	3622.7
42.5°	3329.3	3387.3	3497.9	3501.2	3445.3
45°	3147.0	3202.8	3305.7	3308.5	3243.3
47.5°	2962.0	3018.4	3110.3	3099.9	3038.6
50°	2774.8	2828.4	2908.9	2888.1	2832.8
52.5°	2581.0	2633.0	2709.1	2675.1	2623.1
55°	2386.1	2434.3	2497.8	2461.7	2421.1
57.5°	2189.6	2238.3	2287.0	2250.4	2215.3
60°	1991.4	2034.1	2074.1	2036.9	2010.0
62.5°	1790.0	1826.7	1861.2	1825.6	1800.4
65°	1586.4	1618.7	1647.1	1614.3	1587.5
67.5°	1383.8	1411.2	1437.5	1403.5	1375.6
70°	1181.3	1204.8	1228.9	1193.9	1168.1
72.5°	981.5	1002.3	1023.6	989.7	967.3
75°	787.2	805.2	822.7	792.6	775.1
77.5°	601.6	616.9	629.0	609.8	592.8
80°	429.2	440.7	447.8	440.1	424.2
82.5°	275.9	284.1	287.9	287.4	277.0
85°	150.0	152.7	159.8	161.5	156.0
87.5°	58.0	61.9	63.5	68.4	63.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)