

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: P488609

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-35-120-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: P488609
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-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

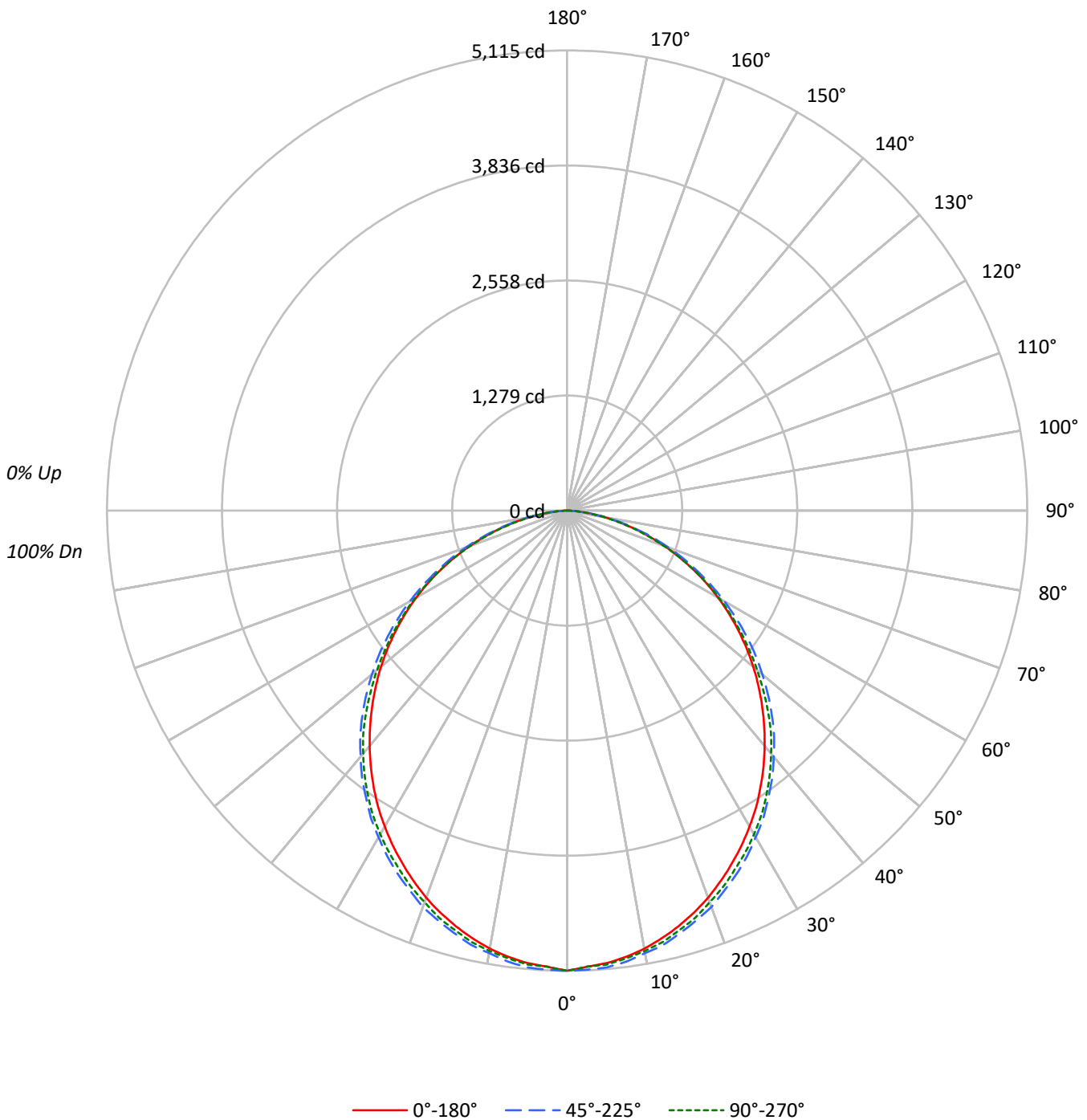
Lumens per Lamp: N/A
Luminaire Lumens: 13448.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488609

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488609

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD

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°	13765	13765	13765
5°	13637	13766	13681
10°	13512	13649	13584
15°	13325	13541	13446
20°	13116	13427	13265
25°	12860	13234	13082
30°	12600	13028	12909
35°	12316	12805	12686
40°	11997	12549	12390
45°	11660	12248	12017
50°	11310	11856	11546
55°	10899	11409	11059
60°	10435	10868	10532
65°	9834	10211	9841
70°	9049	9413	8948
75°	7968	8328	7846
80°	6475	6755	6400
85°	4508	4804	4690



TEST NUMBER: P488609

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	3.6
10°-20°	1365.2	10.2
20°-30°	2036.1	15.1
30°-40°	2412.8	17.9
40°-50°	2441.4	18.2
50°-60°	2132.2	15.9
60°-70°	1558.1	11.6
70°-80°	829.0	6.2
80°-90°	191.6	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°	3883.0	28.9
0°-40°	6295.7	46.8
0°-60°	10869.3	80.8
0°-90°	13448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5115	5115	5115	5115	5115	
5°	5048	5058	5096	5108	5064	479
15°	4783	4815	4860	4890	4826	1348
25°	4331	4384	4457	4474	4406	1995
35°	3749	3808	3898	3925	3862	2345
45°	3064	3118	3218	3221	3158	2364
55°	2323	2370	2432	2397	2357	2077
65°	1544	1576	1604	1572	1546	1528
75°	766	784	801	772	755	815
85°	146	149	156	157	152	185
90°	0	0	0	0	0	



TEST NUMBER: P488609

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5115.1	5115.1	5115.1	5115.1	5115.1
2.5°	5075.2	5091.7	5108.7	5116.2	5074.6
5°	5048.5	5058.1	5096.0	5107.7	5064.5
7.5°	5004.8	5019.2	5056.0	5061.3	5019.7
10°	4945.1	4970.7	4995.2	5021.9	4971.2
12.5°	4868.9	4903.6	4945.1	4949.9	4911.6
15°	4783.1	4815.1	4860.4	4889.7	4826.3
17.5°	4687.2	4718.1	4776.7	4782.1	4743.7
20°	4580.1	4618.4	4688.8	4701.0	4632.3
22.5°	4458.6	4510.3	4568.9	4580.6	4530.0
25°	4331.2	4384.5	4457.0	4473.5	4405.8
27.5°	4198.0	4249.1	4330.7	4342.4	4285.4
30°	4055.1	4103.1	4192.6	4212.3	4154.3
32.5°	3910.2	3958.1	4057.3	4073.8	4017.3
35°	3749.2	3807.8	3897.9	3925.1	3861.7
37.5°	3585.1	3642.1	3744.4	3768.9	3700.7
40°	3415.1	3471.6	3572.3	3592.5	3527.0
42.5°	3241.3	3297.8	3405.5	3408.7	3354.3
45°	3063.9	3118.2	3218.4	3221.1	3157.7
47.5°	2883.7	2938.6	3028.2	3018.0	2958.3
50°	2701.5	2753.7	2832.0	2811.8	2758.0
52.5°	2512.8	2563.4	2637.5	2604.5	2553.8
55°	2323.1	2370.0	2431.8	2396.6	2357.2
57.5°	2131.8	2179.2	2226.6	2190.9	2156.8
60°	1938.8	1980.4	2019.3	1983.1	1956.9
62.5°	1742.7	1778.4	1812.0	1777.3	1752.8
65°	1544.5	1575.9	1603.6	1571.6	1545.5
67.5°	1347.3	1373.9	1399.5	1366.5	1339.3
70°	1150.1	1173.0	1196.4	1162.3	1137.3
72.5°	955.6	975.8	996.6	963.6	941.7
75°	766.4	784.0	801.0	771.7	754.6
77.5°	585.7	600.6	612.3	593.7	577.2
80°	417.8	429.0	435.9	428.5	413.0
82.5°	268.6	276.6	280.3	279.8	269.7
85°	146.0	148.7	155.6	157.2	151.9
87.5°	56.5	60.2	61.8	66.6	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)