

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: P488607

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-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: P488607
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-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

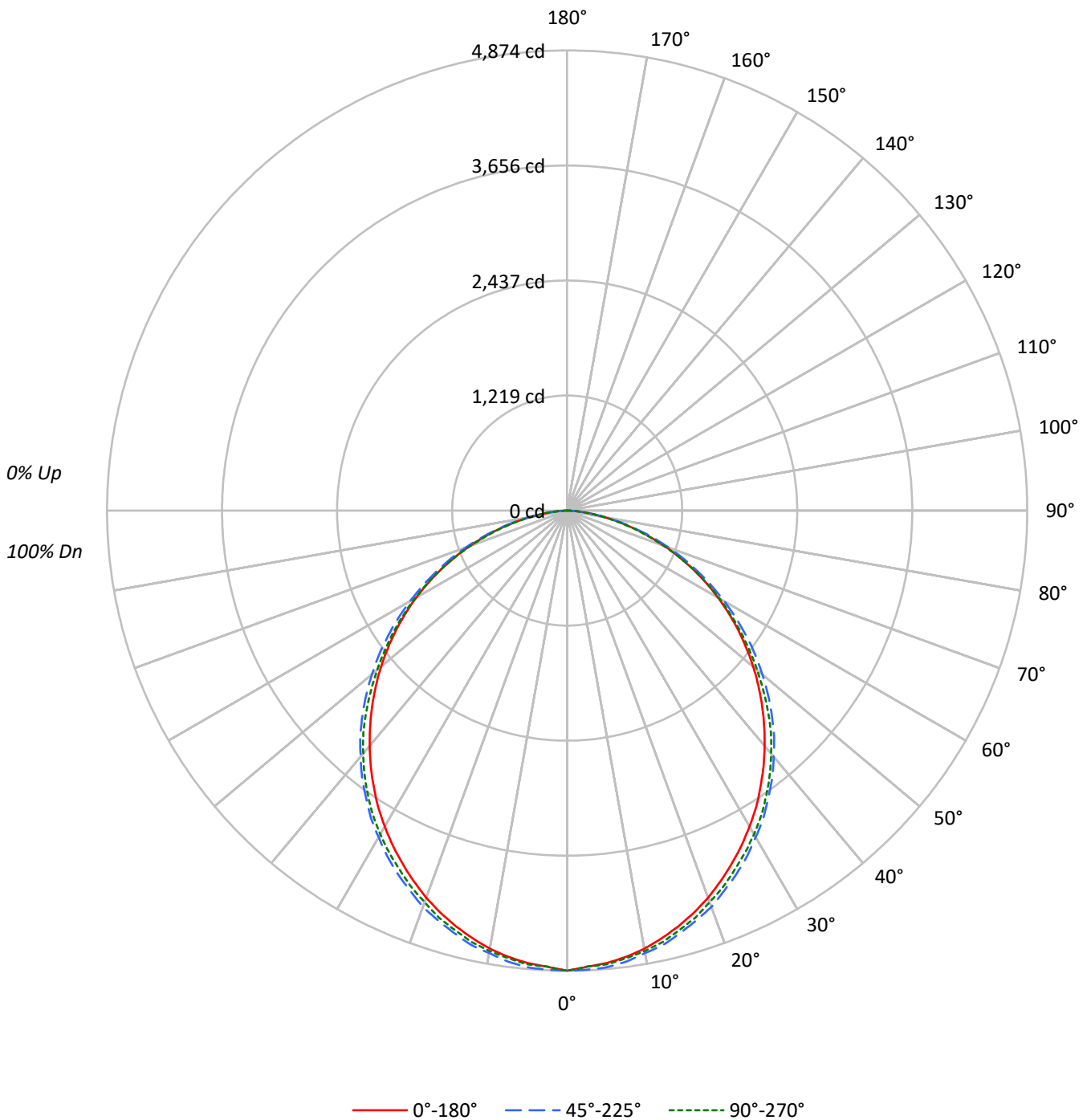
Lumens per Lamp: N/A
Luminaire Lumens: 12812.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P488607

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-30-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488607

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-30-120-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	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°	13114	13114	13114
5°	12993	13115	13034
10°	12874	13005	12942
15°	12696	12901	12810
20°	12496	12793	12639
25°	12253	12608	12464
30°	12005	12412	12299
35°	11735	12200	12087
40°	11430	11956	11804
45°	11109	11670	11449
50°	10775	11296	11001
55°	10384	10870	10536
60°	9942	10354	10035
65°	9370	9729	9376
70°	8622	8969	8526
75°	7592	7935	7476
80°	6169	6437	6098
85°	4295	4579	4468



TEST NUMBER: P488607

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-30-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	3.6
10°-20°	1300.7	10.2
20°-30°	1939.9	15.1
30°-40°	2298.8	17.9
40°-50°	2326.0	18.2
50°-60°	2031.4	15.9
60°-70°	1484.5	11.6
70°-80°	789.9	6.2
80°-90°	182.6	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°	3699.6	28.9
0°-40°	5998.4	46.8
0°-60°	10355.9	80.8
0°-90°	12812.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12812.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4874	4874	4874	4874	4874	
5°	4810	4819	4855	4866	4825	456
15°	4557	4588	4631	4659	4598	1285
25°	4127	4177	4246	4262	4198	1901
35°	3572	3628	3714	3740	3679	2234
45°	2919	2971	3066	3069	3008	2252
55°	2213	2258	2317	2283	2246	1979
65°	1472	1502	1528	1497	1472	1456
75°	730	747	763	735	719	776
85°	139	142	148	150	145	176
90°	0	0	0	0	0	



TEST NUMBER: P488607

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-3HI-30-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4873.5	4873.5	4873.5	4873.5	4873.5
2.5°	4835.5	4851.2	4867.4	4874.5	4834.9
5°	4810.1	4819.2	4855.3	4866.4	4825.3
7.5°	4768.4	4782.1	4817.2	4822.2	4782.6
10°	4711.6	4735.9	4759.3	4784.7	4736.4
12.5°	4638.9	4672.0	4711.6	4716.1	4679.6
15°	4557.2	4587.7	4630.8	4658.7	4598.3
17.5°	4465.8	4495.2	4551.1	4556.2	4519.6
20°	4363.7	4400.3	4467.3	4479.0	4413.5
22.5°	4248.0	4297.2	4353.1	4364.2	4316.0
25°	4126.6	4177.4	4246.4	4262.2	4197.7
27.5°	3999.7	4048.4	4126.1	4137.3	4082.9
30°	3863.6	3909.3	3994.6	4013.4	3958.0
32.5°	3725.5	3771.2	3865.6	3881.4	3827.5
35°	3572.1	3628.0	3713.8	3739.7	3679.3
37.5°	3415.7	3470.1	3567.6	3590.9	3525.9
40°	3253.8	3307.6	3403.6	3422.8	3360.4
42.5°	3088.2	3142.1	3244.6	3247.7	3195.9
45°	2919.1	2970.9	3066.4	3068.9	3008.5
47.5°	2747.5	2799.8	2885.1	2875.5	2818.6
50°	2573.9	2623.6	2698.3	2679.0	2627.7
52.5°	2394.1	2442.4	2512.9	2481.4	2433.2
55°	2213.3	2258.0	2316.9	2283.4	2245.8
57.5°	2031.1	2076.3	2121.4	2087.4	2054.9
60°	1847.3	1886.9	1923.9	1889.4	1864.5
62.5°	1660.4	1694.4	1726.4	1693.4	1670.0
65°	1471.5	1501.5	1527.9	1497.4	1472.5
67.5°	1283.6	1309.0	1333.4	1301.9	1276.0
70°	1095.8	1117.6	1139.9	1107.4	1083.6
72.5°	910.4	929.7	949.5	918.0	897.2
75°	730.2	746.9	763.2	735.2	719.0
77.5°	558.0	572.3	583.4	565.7	549.9
80°	398.1	408.8	415.4	408.2	393.5
82.5°	255.9	263.5	267.1	266.6	256.9
85°	139.1	141.7	148.3	149.8	144.7
87.5°	53.8	57.4	58.9	63.5	58.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)