

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: P488866

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-20-120-EDD-90**

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: P488866
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-24-2-INS-A12125-LD4-1LO-20-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

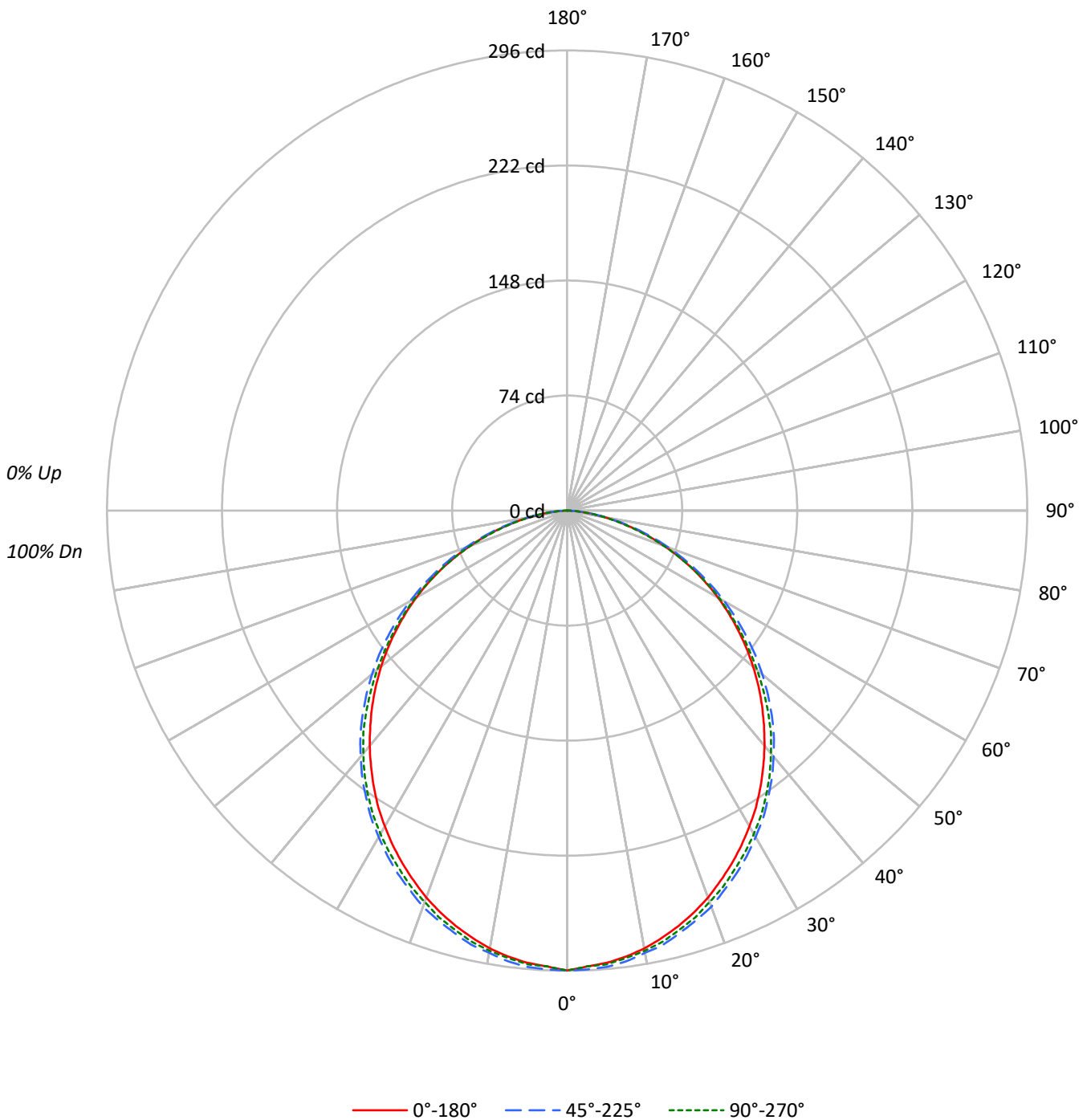
Lumens per Lamp: N/A
Luminaire Lumens: 777.7 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P488866

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488866

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-20-120-EDD-90

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°	796	796	796
5°	789	796	791
10°	781	789	786
15°	771	783	778
20°	759	777	767
25°	744	765	757
30°	729	754	746
35°	712	740	734
40°	694	726	717
45°	674	708	695
50°	654	686	668
55°	630	660	639
60°	603	629	609
65°	569	590	569
70°	523	544	518
75°	461	481	453
80°	375	391	370
85°	259	278	272



TEST NUMBER: P488866

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	3.6
10°-20°	78.9	10.2
20°-30°	117.7	15.1
30°-40°	139.5	17.9
40°-50°	141.2	18.2
50°-60°	123.3	15.9
60°-70°	90.1	11.6
70°-80°	47.9	6.2
80°-90°	11.1	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°	224.6	28.9
0°-40°	364.1	46.8
0°-60°	628.6	80.8
0°-90°	777.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	296	296	296	296	296	
5°	292	292	295	295	293	28
15°	277	278	281	283	279	78
25°	250	254	258	259	255	115
35°	217	220	225	227	223	136
45°	177	180	186	186	183	137
55°	134	137	141	139	136	120
65°	89	91	93	91	89	88
75°	44	45	46	45	44	47
85°	8	9	9	9	9	11
90°	0	0	0	0	0	



TEST NUMBER: P488866

CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-1LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	295.8	295.8	295.8	295.8	295.8
2.5°	293.5	294.5	295.4	295.9	293.5
5°	292.0	292.5	294.7	295.4	292.9
7.5°	289.4	290.3	292.4	292.7	290.3
10°	286.0	287.5	288.9	290.4	287.5
12.5°	281.6	283.6	286.0	286.3	284.0
15°	276.6	278.5	281.1	282.8	279.1
17.5°	271.1	272.8	276.2	276.5	274.3
20°	264.9	267.1	271.2	271.9	267.9
22.5°	257.8	260.8	264.2	264.9	262.0
25°	250.5	253.6	257.7	258.7	254.8
27.5°	242.8	245.7	250.4	251.1	247.8
30°	234.5	237.3	242.5	243.6	240.2
32.5°	226.1	228.9	234.6	235.6	232.3
35°	216.8	220.2	225.4	227.0	223.3
37.5°	207.3	210.6	216.5	218.0	214.0
40°	197.5	200.8	206.6	207.8	204.0
42.5°	187.4	190.7	196.9	197.1	194.0
45°	177.2	180.3	186.1	186.3	182.6
47.5°	166.8	169.9	175.1	174.5	171.1
50°	156.2	159.2	163.8	162.6	159.5
52.5°	145.3	148.2	152.5	150.6	147.7
55°	134.3	137.1	140.6	138.6	136.3
57.5°	123.3	126.0	128.8	126.7	124.7
60°	112.1	114.5	116.8	114.7	113.2
62.5°	100.8	102.8	104.8	102.8	101.4
65°	89.3	91.1	92.7	90.9	89.4
67.5°	77.9	79.5	80.9	79.0	77.5
70°	66.5	67.8	69.2	67.2	65.8
72.5°	55.3	56.4	57.6	55.7	54.5
75°	44.3	45.3	46.3	44.6	43.6
77.5°	33.9	34.7	35.4	34.3	33.4
80°	24.2	24.8	25.2	24.8	23.9
82.5°	15.5	16.0	16.2	16.2	15.6
85°	8.4	8.6	9.0	9.1	8.8
87.5°	3.3	3.5	3.6	3.9	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)