

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: P488364

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-27-120-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: P488364
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-12-2-INS-A12125-LD4-2LO-27-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

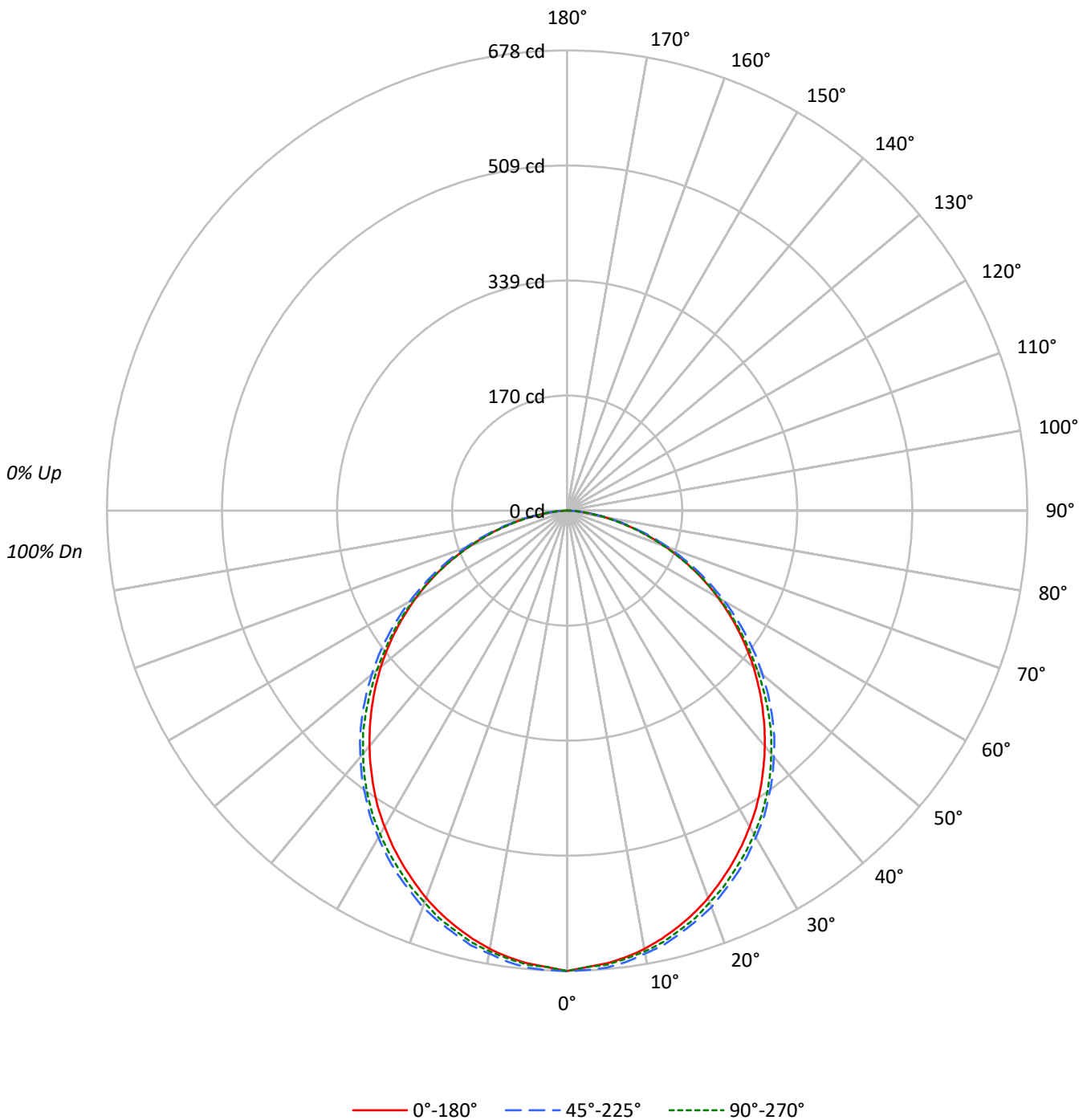
Lumens per Lamp: N/A
Luminaire Lumens: 1783.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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: P488364

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2LO-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488364

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2LO-27-120-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°	3652	3652	3652
5°	3618	3652	3629
10°	3584	3621	3604
15°	3535	3592	3567
20°	3479	3562	3519
25°	3412	3511	3470
30°	3343	3456	3424
35°	3267	3397	3365
40°	3183	3329	3287
45°	3093	3249	3188
50°	3000	3145	3063
55°	2891	3026	2933
60°	2768	2883	2794
65°	2609	2709	2611
70°	2400	2497	2373
75°	2113	2208	2082
80°	1717	1791	1698
85°	1198	1272	1241



TEST NUMBER: P488364

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2LO-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.6
10°-20°	181.1	10.2
20°-30°	270.1	15.1
30°-40°	320.0	17.9
40°-50°	323.8	18.2
50°-60°	282.8	15.9
60°-70°	206.7	11.6
70°-80°	110.0	6.2
80°-90°	25.4	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°	515.0	28.9
0°-40°	835.0	46.8
0°-60°	1441.6	80.8
0°-90°	1783.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1783.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	678	678	678	678	678	
5°	670	671	676	678	672	63
15°	634	639	645	649	640	179
25°	574	582	591	593	584	265
35°	497	505	517	521	512	311
45°	406	414	427	427	419	314
55°	308	314	322	318	313	275
65°	205	209	213	208	205	203
75°	102	104	106	102	100	108
85°	19	20	21	21	20	25
90°	0	0	0	0	0	



TEST NUMBER: P488364

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-2LO-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	678.5	678.5	678.5	678.5	678.5
2.5°	673.2	675.3	677.6	678.6	673.1
5°	669.6	670.9	675.9	677.5	671.7
7.5°	663.8	665.7	670.6	671.3	665.8
10°	655.9	659.3	662.6	666.1	659.4
12.5°	645.8	650.4	655.9	656.5	651.5
15°	634.4	638.7	644.7	648.6	640.1
17.5°	621.7	625.8	633.6	634.3	629.2
20°	607.5	612.6	621.9	623.5	614.4
22.5°	591.4	598.2	606.0	607.6	600.8
25°	574.5	581.5	591.2	593.3	584.4
27.5°	556.8	563.6	574.4	576.0	568.4
30°	537.9	544.2	556.1	558.7	551.0
32.5°	518.6	525.0	538.1	540.3	532.8
35°	497.3	505.1	517.0	520.6	512.2
37.5°	475.5	483.1	496.6	499.9	490.9
40°	453.0	460.5	473.8	476.5	467.8
42.5°	429.9	437.4	451.7	452.1	444.9
45°	406.4	413.6	426.9	427.2	418.8
47.5°	382.5	389.8	401.6	400.3	392.4
50°	358.3	365.2	375.6	372.9	365.8
52.5°	333.3	340.0	349.8	345.4	338.7
55°	308.1	314.3	322.5	317.9	312.6
57.5°	282.7	289.0	295.3	290.6	286.1
60°	257.2	262.7	267.8	263.0	259.6
62.5°	231.1	235.9	240.3	235.7	232.5
65°	204.9	209.0	212.7	208.5	205.0
67.5°	178.7	182.2	185.6	181.2	177.6
70°	152.5	155.6	158.7	154.2	150.8
72.5°	126.7	129.4	132.2	127.8	124.9
75°	101.6	104.0	106.2	102.4	100.1
77.5°	77.7	79.7	81.2	78.7	76.6
80°	55.4	56.9	57.8	56.8	54.8
82.5°	35.6	36.7	37.2	37.1	35.8
85°	19.4	19.7	20.6	20.9	20.1
87.5°	7.5	8.0	8.2	8.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)