

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: P488328

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-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: P488328
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-LD4-1LO-27-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

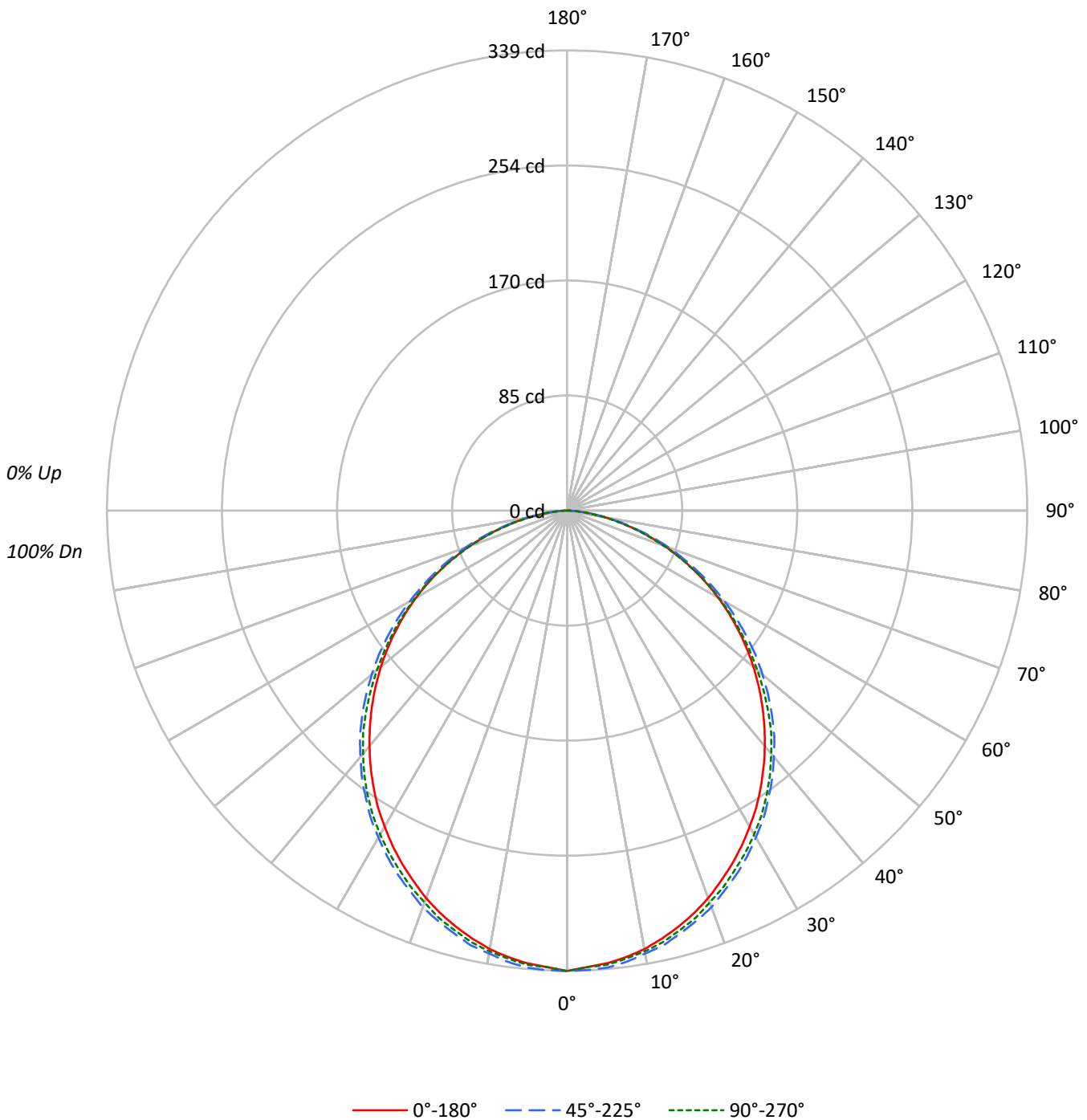
Lumens per Lamp: N/A
Luminaire Lumens: 891.9 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P488328

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-1LO-27-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P488328

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-1LO-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°	1826	1826	1826
5°	1809	1826	1815
10°	1793	1811	1802
15°	1767	1796	1784
20°	1740	1781	1759
25°	1706	1755	1735
30°	1671	1728	1712
35°	1634	1698	1683
40°	1591	1664	1643
45°	1547	1625	1594
50°	1500	1572	1531
55°	1446	1514	1467
60°	1384	1441	1397
65°	1304	1355	1305
70°	1201	1249	1186
75°	1056	1104	1040
80°	859	896	849
85°	599	636	624



TEST NUMBER: P488328

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-1LO-27-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	3.6
10°-20°	90.5	10.2
20°-30°	135.0	15.1
30°-40°	160.0	17.9
40°-50°	161.9	18.2
50°-60°	141.4	15.9
60°-70°	103.3	11.6
70°-80°	55.0	6.2
80°-90°	12.7	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°	257.5	28.9
0°-40°	417.5	46.8
0°-60°	720.9	80.8
0°-90°	891.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	891.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	339	339	339	339	339	
5°	335	336	338	339	336	32
15°	317	319	322	324	320	89
25°	287	291	296	297	292	132
35°	249	252	258	260	256	156
45°	203	207	214	214	209	157
55°	154	157	161	159	156	138
65°	102	104	106	104	102	101
75°	51	52	53	51	50	54
85°	10	10	10	10	10	12
90°	0	0	0	0	0	



TEST NUMBER: P488328

CATALOG NUMBER: CLM-12-2-INS-A12125-LD4-1LO-27-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	339.2	339.2	339.2	339.2	339.2
2.5°	336.6	337.7	338.8	339.3	336.6
5°	334.8	335.5	338.0	338.8	335.9
7.5°	331.9	332.9	335.3	335.7	332.9
10°	328.0	329.7	331.3	333.1	329.7
12.5°	322.9	325.2	328.0	328.3	325.7
15°	317.2	319.3	322.4	324.3	320.1
17.5°	310.9	312.9	316.8	317.2	314.6
20°	303.8	306.3	311.0	311.8	307.2
22.5°	295.7	299.1	303.0	303.8	300.4
25°	287.3	290.8	295.6	296.7	292.2
27.5°	278.4	281.8	287.2	288.0	284.2
30°	268.9	272.1	278.1	279.4	275.5
32.5°	259.3	262.5	269.1	270.2	266.4
35°	248.7	252.5	258.5	260.3	256.1
37.5°	237.8	241.6	248.3	250.0	245.4
40°	226.5	230.2	236.9	238.3	233.9
42.5°	215.0	218.7	225.9	226.1	222.5
45°	203.2	206.8	213.5	213.6	209.4
47.5°	191.3	194.9	200.8	200.2	196.2
50°	179.2	182.6	187.8	186.5	182.9
52.5°	166.7	170.0	174.9	172.7	169.4
55°	154.1	157.2	161.3	158.9	156.3
57.5°	141.4	144.5	147.7	145.3	143.0
60°	128.6	131.3	133.9	131.5	129.8
62.5°	115.6	117.9	120.2	117.9	116.3
65°	102.4	104.5	106.4	104.2	102.5
67.5°	89.4	91.1	92.8	90.6	88.8
70°	76.3	77.8	79.4	77.1	75.4
72.5°	63.4	64.7	66.1	63.9	62.5
75°	50.8	52.0	53.1	51.2	50.0
77.5°	38.8	39.8	40.6	39.4	38.3
80°	27.7	28.5	28.9	28.4	27.4
82.5°	17.8	18.3	18.6	18.6	17.9
85°	9.7	9.9	10.3	10.4	10.1
87.5°	3.7	4.0	4.1	4.4	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)