

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: P488539

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-40-120-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: P488539
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-LD4-1HI-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

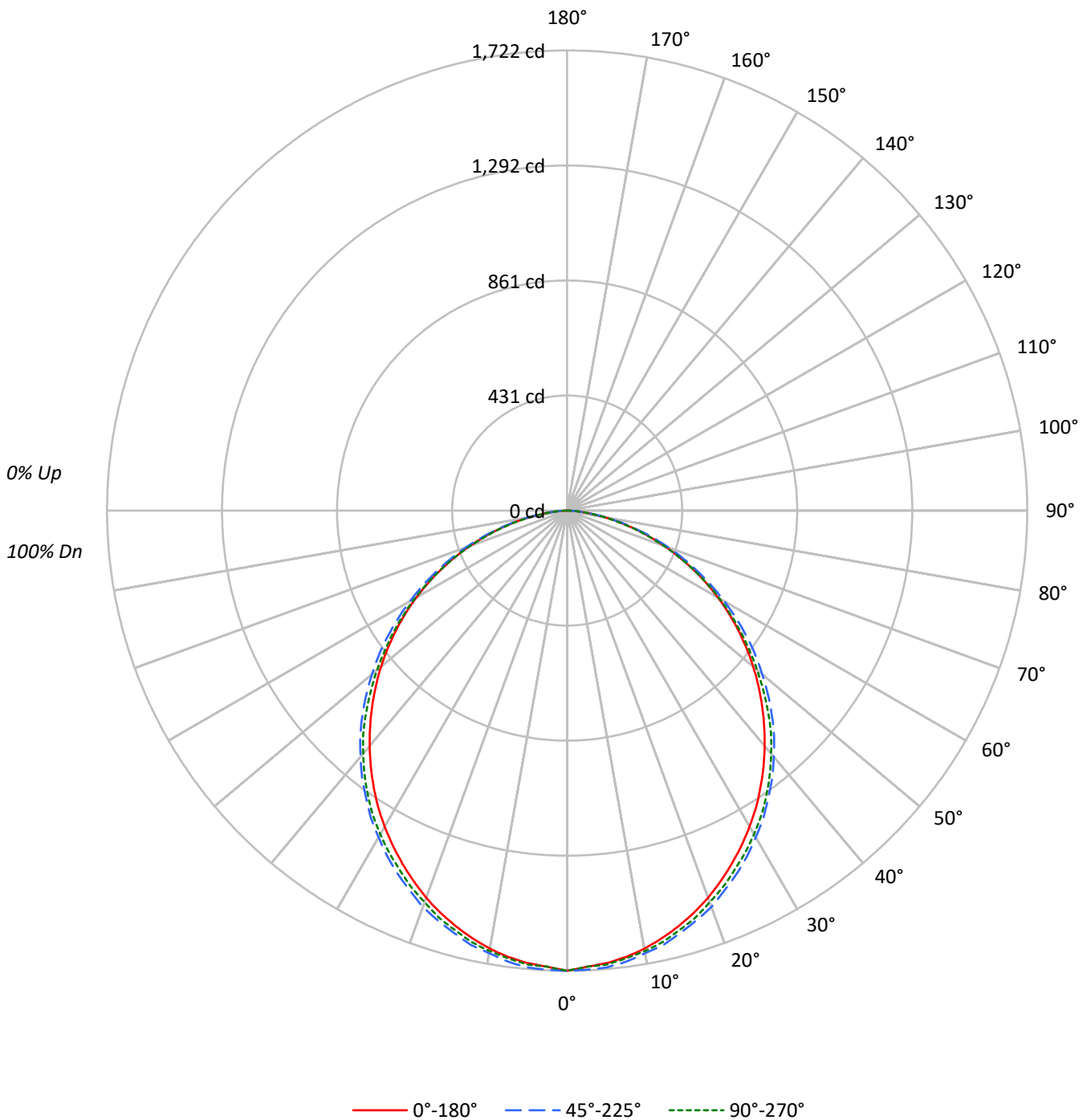
Lumens per Lamp: N/A
Luminaire Lumens: 4527.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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: P488539

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1HI-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P488539

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1HI-40-120-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°	4634	4634	4634
5°	4591	4634	4606
10°	4549	4595	4573
15°	4486	4559	4527
20°	4416	4521	4466
25°	4330	4455	4404
30°	4242	4386	4346
35°	4146	4311	4271
40°	4039	4225	4171
45°	3925	4123	4046
50°	3808	3992	3887
55°	3669	3841	3723
60°	3513	3659	3546
65°	3311	3438	3313
70°	3046	3169	3013
75°	2682	2804	2642
80°	2180	2275	2156
85°	1519	1618	1578



TEST NUMBER: P488539

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1HI-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.6
10°-20°	459.6	10.2
20°-30°	685.5	15.1
30°-40°	812.3	17.9
40°-50°	821.9	18.2
50°-60°	717.8	15.9
60°-70°	524.6	11.6
70°-80°	279.1	6.2
80°-90°	64.5	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°	1307.3	28.9
0°-40°	2119.6	46.8
0°-60°	3659.3	80.8
0°-90°	4527.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4527.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1700	1703	1716	1720	1705	161
15°	1610	1621	1636	1646	1625	454
25°	1458	1476	1500	1506	1483	672
35°	1262	1282	1312	1321	1300	789
45°	1032	1050	1084	1084	1063	796
55°	782	798	819	807	794	699
65°	520	531	540	529	520	515
75°	258	264	270	260	254	274
85°	49	50	52	53	51	62
90°	0	0	0	0	0	



TEST NUMBER: P488539

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1HI-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.1	1722.1	1722.1	1722.1	1722.1
2.5°	1708.6	1714.2	1719.9	1722.5	1708.5
5°	1699.7	1702.9	1715.6	1719.6	1705.1
7.5°	1685.0	1689.8	1702.2	1704.0	1690.0
10°	1664.9	1673.5	1681.7	1690.7	1673.7
12.5°	1639.2	1650.9	1664.9	1666.5	1653.6
15°	1610.3	1621.1	1636.3	1646.2	1624.9
17.5°	1578.0	1588.4	1608.2	1610.0	1597.0
20°	1542.0	1554.9	1578.6	1582.7	1559.5
22.5°	1501.1	1518.5	1538.2	1542.1	1525.1
25°	1458.2	1476.1	1500.5	1506.1	1483.3
27.5°	1413.3	1430.5	1458.0	1461.9	1442.7
30°	1365.2	1381.4	1411.5	1418.2	1398.6
32.5°	1316.4	1332.6	1365.9	1371.5	1352.5
35°	1262.2	1282.0	1312.3	1321.4	1300.1
37.5°	1207.0	1226.2	1260.6	1268.9	1245.9
40°	1149.7	1168.8	1202.7	1209.5	1187.4
42.5°	1091.2	1110.3	1146.5	1147.6	1129.3
45°	1031.5	1049.8	1083.5	1084.4	1063.1
47.5°	970.9	989.3	1019.5	1016.1	996.0
50°	909.5	927.1	953.5	946.6	928.5
52.5°	846.0	863.0	888.0	876.8	859.8
55°	782.1	797.9	818.7	806.9	793.6
57.5°	717.7	733.7	749.6	737.6	726.1
60°	652.7	666.7	679.8	667.6	658.8
62.5°	586.7	598.7	610.0	598.4	590.1
65°	520.0	530.6	539.9	529.1	520.3
67.5°	453.6	462.6	471.2	460.0	450.9
70°	387.2	394.9	402.8	391.3	382.9
72.5°	321.7	328.5	335.5	324.4	317.0
75°	258.0	263.9	269.7	259.8	254.1
77.5°	197.2	202.2	206.2	199.9	194.3
80°	140.7	144.4	146.8	144.3	139.1
82.5°	90.4	93.1	94.4	94.2	90.8
85°	49.2	50.1	52.4	52.9	51.1
87.5°	19.0	20.3	20.8	22.4	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)