

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: P488550

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-40-120-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: P488550  
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-LD4-1LO-40-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

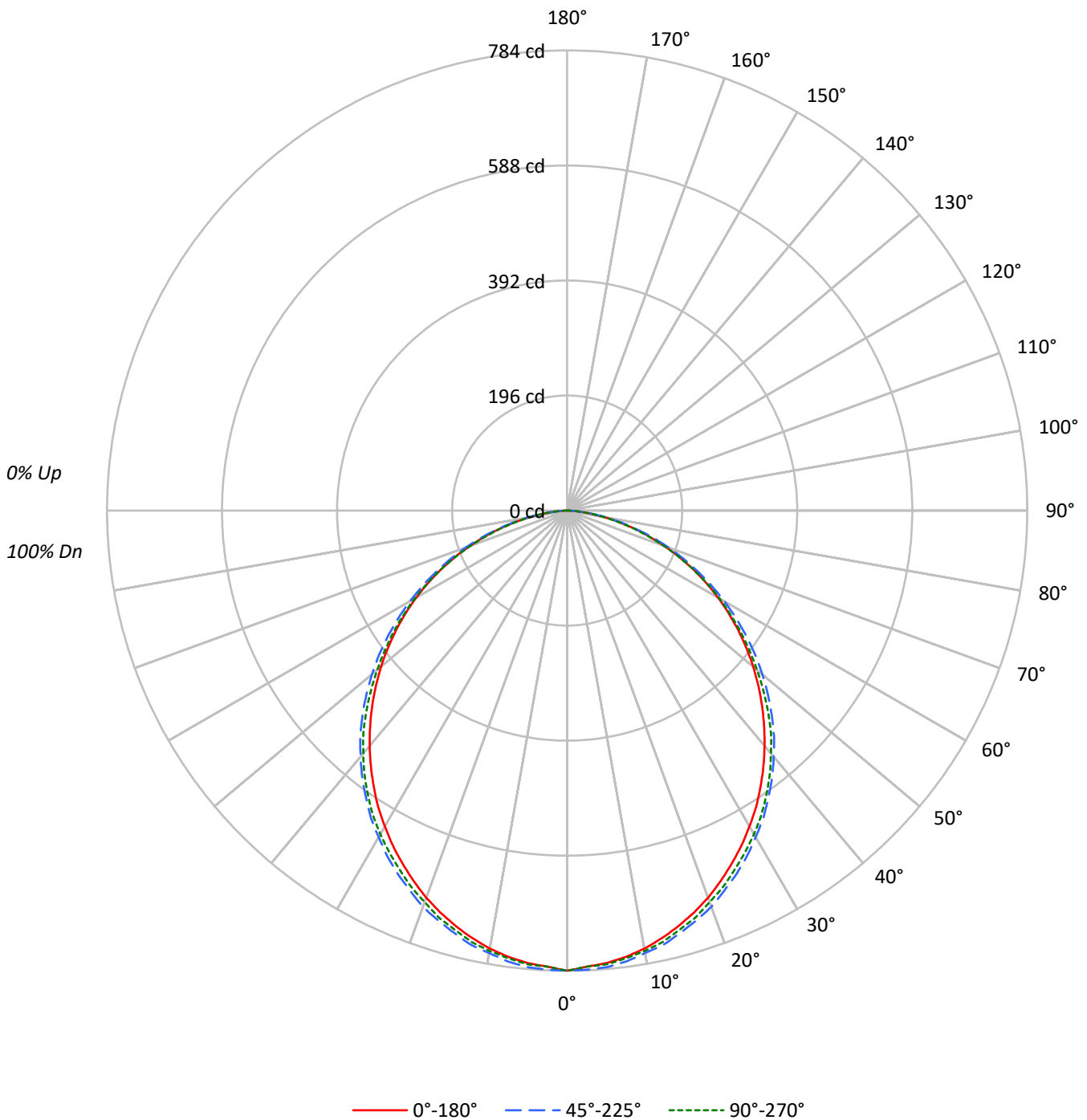
Lumens per Lamp: N/A  
Luminaire Lumens: 2060.6 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P488550

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-40-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P488550

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-40-120-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°	2109	2109	2109
5°	2090	2109	2096
10°	2070	2091	2081
15°	2042	2075	2060
20°	2010	2058	2033
25°	1971	2028	2004
30°	1931	1996	1978
35°	1887	1962	1944
40°	1838	1923	1898
45°	1787	1877	1841
50°	1733	1816	1769
55°	1670	1748	1695
60°	1599	1665	1614
65°	1507	1564	1508
70°	1386	1442	1371
75°	1221	1276	1202
80°	992	1035	981
85°	692	735	719



TEST NUMBER: P488550

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-40-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	3.6
10°-20°	209.2	10.2
20°-30°	312.0	15.1
30°-40°	369.7	17.9
40°-50°	374.1	18.2
50°-60°	326.7	15.9
60°-70°	238.7	11.6
70°-80°	127.0	6.2
80°-90°	29.4	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°	595.0	28.9
0°-40°	964.7	46.8
0°-60°	1665.5	80.8
0°-90°	2060.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2060.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	774	775	781	783	776	73
15°	733	738	745	749	740	207
25°	664	672	683	686	675	306
35°	574	584	597	601	592	359
45°	470	478	493	494	484	362
55°	356	363	373	367	361	318
65°	237	242	246	241	237	234
75°	117	120	123	118	116	125
85°	22	23	24	24	23	28
90°	0	0	0	0	0	



TEST NUMBER: P488550

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1LO-40-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	783.8	783.8	783.8	783.8	783.8
2.5°	777.7	780.2	782.8	783.9	777.6
5°	773.6	775.0	780.8	782.6	776.0
7.5°	766.9	769.1	774.7	775.5	769.2
10°	757.7	761.6	765.4	769.5	761.7
12.5°	746.1	751.4	757.7	758.5	752.6
15°	732.9	737.8	744.7	749.2	739.5
17.5°	718.2	722.9	731.9	732.7	726.9
20°	701.8	707.7	718.5	720.3	709.8
22.5°	683.2	691.1	700.1	701.9	694.1
25°	663.7	671.8	682.9	685.5	675.1
27.5°	643.2	651.1	663.6	665.4	656.6
30°	621.4	628.7	642.4	645.4	636.5
32.5°	599.1	606.5	621.7	624.2	615.6
35°	574.5	583.5	597.3	601.4	591.7
37.5°	549.3	558.1	573.7	577.5	567.1
40°	523.3	531.9	547.4	550.5	540.4
42.5°	496.7	505.3	521.8	522.3	514.0
45°	469.5	477.8	493.1	493.6	483.8
47.5°	441.9	450.3	464.0	462.4	453.3
50°	413.9	421.9	433.9	430.8	422.6
52.5°	385.0	392.8	404.1	399.1	391.3
55°	356.0	363.1	372.6	367.2	361.2
57.5°	326.6	333.9	341.2	335.7	330.5
60°	297.1	303.5	309.4	303.9	299.9
62.5°	267.0	272.5	277.6	272.3	268.6
65°	236.7	241.5	245.7	240.8	236.8
67.5°	206.4	210.5	214.4	209.4	205.2
70°	176.2	179.7	183.3	178.1	174.3
72.5°	146.4	149.5	152.7	147.6	144.3
75°	117.4	120.1	122.7	118.2	115.6
77.5°	89.7	92.0	93.8	91.0	88.4
80°	64.0	65.7	66.8	65.7	63.3
82.5°	41.2	42.4	43.0	42.9	41.3
85°	22.4	22.8	23.8	24.1	23.3
87.5°	8.7	9.2	9.5	10.2	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)