

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: P489412

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-35-120-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: P489412  
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-24-4-INS-A12125-LD4-1LO-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

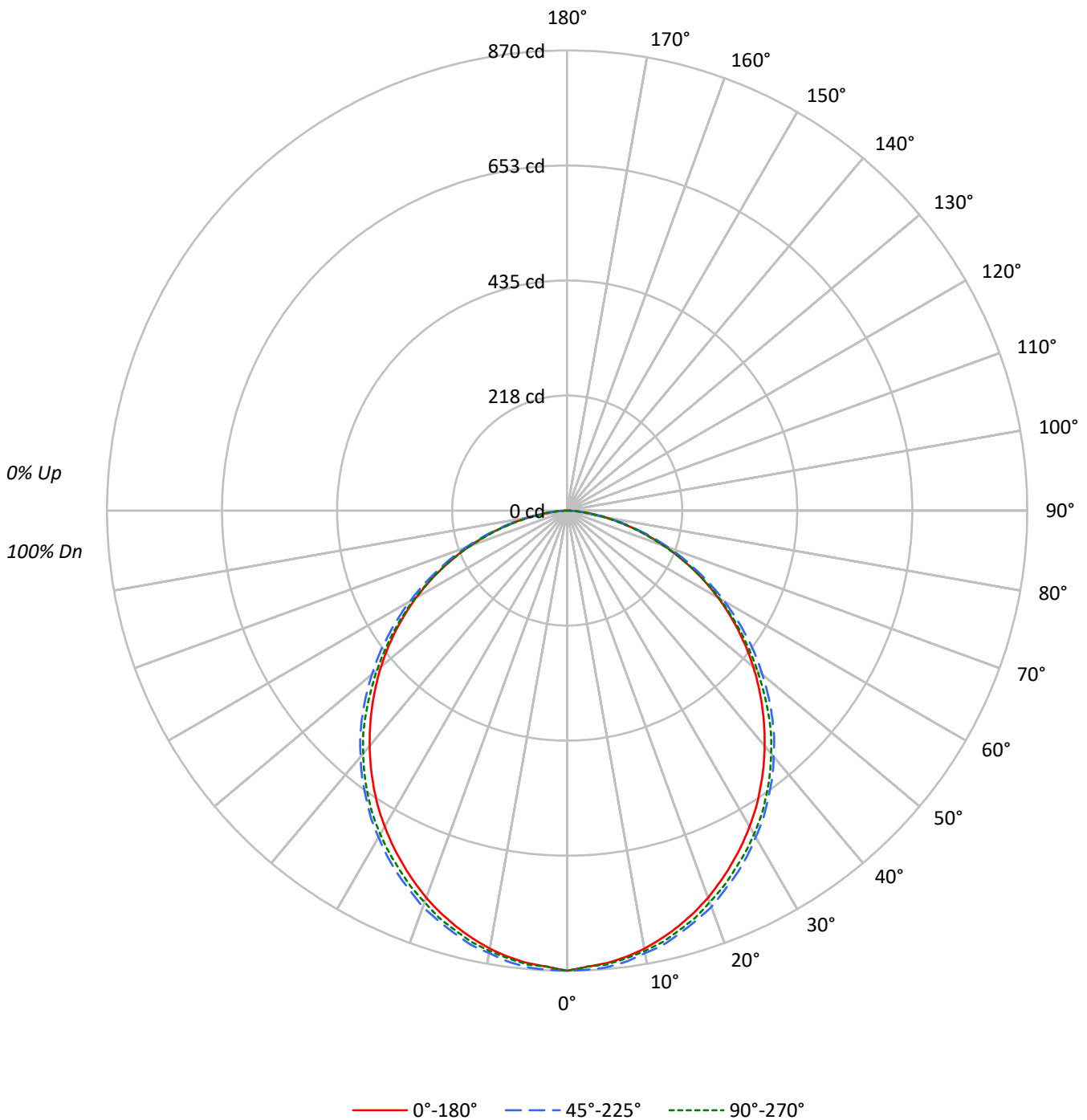
Lumens per Lamp: N/A  
Luminaire Lumens: 2287.3 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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: P489412

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-35-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489412

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-35-120-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°	1171	1171	1171
5°	1160	1171	1163
10°	1149	1161	1155
15°	1133	1152	1143
20°	1115	1142	1128
25°	1094	1125	1113
30°	1072	1108	1098
35°	1047	1089	1079
40°	1020	1067	1054
45°	992	1042	1022
50°	962	1008	982
55°	927	970	940
60°	887	924	896
65°	836	868	837
70°	769	801	761
75°	677	708	667
80°	551	574	544
85°	383	409	398



TEST NUMBER: P489412

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-35-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	3.6
10°-20°	232.2	10.2
20°-30°	346.3	15.1
30°-40°	410.4	17.9
40°-50°	415.2	18.2
50°-60°	362.6	15.9
60°-70°	265.0	11.6
70°-80°	141.0	6.2
80°-90°	32.6	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°	660.4	28.9
0°-40°	1070.8	46.8
0°-60°	1848.7	80.8
0°-90°	2287.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	859	860	867	869	861	81
15°	814	819	827	832	821	229
25°	737	746	758	761	749	339
35°	638	648	663	668	657	399
45°	521	530	547	548	537	402
55°	395	403	414	408	401	353
65°	263	268	273	267	263	260
75°	130	133	136	131	128	139
85°	25	25	26	27	26	31
90°	0	0	0	0	0	



TEST NUMBER: P489412

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1LO-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	870.0	870.0	870.0	870.0	870.0
2.5°	863.2	866.0	868.9	870.2	863.1
5°	858.7	860.3	866.7	868.7	861.4
7.5°	851.2	853.7	859.9	860.9	853.8
10°	841.1	845.4	849.6	854.1	845.5
12.5°	828.1	834.0	841.1	841.9	835.4
15°	813.5	819.0	826.7	831.7	820.9
17.5°	797.2	802.5	812.4	813.4	806.8
20°	779.0	785.5	797.5	799.6	787.9
22.5°	758.3	767.1	777.1	779.1	770.5
25°	736.7	745.7	758.1	760.9	749.4
27.5°	714.0	722.7	736.6	738.6	728.9
30°	689.7	697.9	713.1	716.5	706.6
32.5°	665.1	673.2	690.1	692.9	683.3
35°	637.7	647.7	663.0	667.6	656.8
37.5°	609.8	619.5	636.9	641.0	629.4
40°	580.9	590.5	607.6	611.0	599.9
42.5°	551.3	560.9	579.2	579.8	570.5
45°	521.1	530.4	547.4	547.9	537.1
47.5°	490.5	499.8	515.0	513.3	503.2
50°	459.5	468.4	481.7	478.2	469.1
52.5°	427.4	436.0	448.6	443.0	434.4
55°	395.1	403.1	413.6	407.6	400.9
57.5°	362.6	370.6	378.7	372.6	366.8
60°	329.8	336.8	343.5	337.3	332.8
62.5°	296.4	302.5	308.2	302.3	298.1
65°	262.7	268.0	272.7	267.3	262.9
67.5°	229.1	233.7	238.0	232.4	227.8
70°	195.6	199.5	203.5	197.7	193.4
72.5°	162.5	166.0	169.5	163.9	160.2
75°	130.3	133.3	136.2	131.3	128.4
77.5°	99.6	102.2	104.2	101.0	98.2
80°	71.1	73.0	74.1	72.9	70.2
82.5°	45.7	47.0	47.7	47.6	45.9
85°	24.8	25.3	26.5	26.7	25.8
87.5°	9.6	10.2	10.5	11.3	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)