

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: P489776

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-50-120-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: P489776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-1LO-50-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

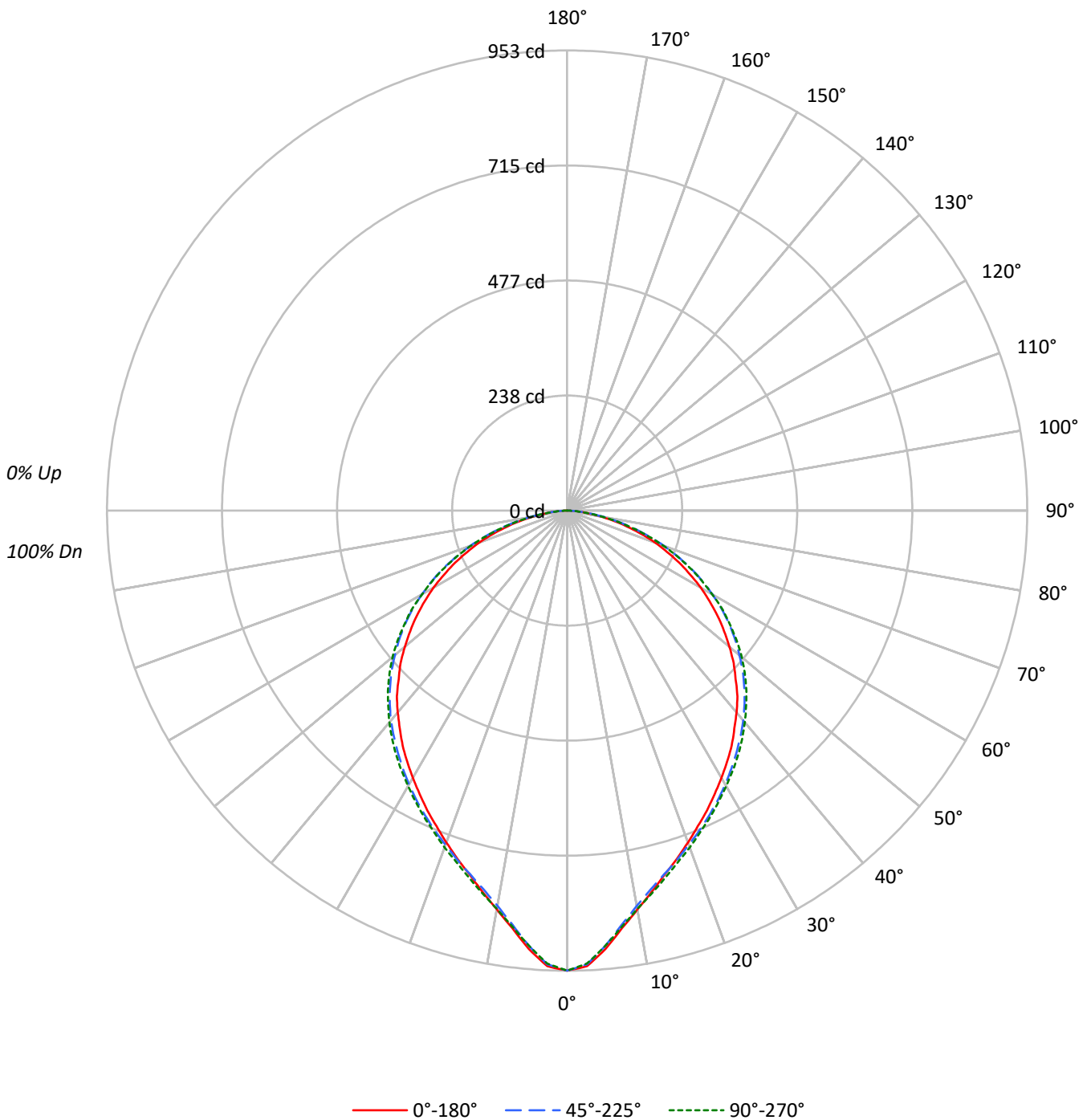
Lumens per Lamp: N/A  
Luminaire Lumens: 2213.2 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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: P489776

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-50-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489776

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-50-120-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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1282	1282	1282
5°	1231	1222	1222
10°	1146	1135	1144
15°	1087	1085	1096
20°	1047	1055	1063
25°	1017	1034	1040
30°	993	1017	1024
35°	976	1004	1014
40°	958	997	1006
45°	939	988	999
50°	918	975	988
55°	893	961	965
60°	860	935	933
65°	816	899	893
70°	762	838	828
75°	672	743	735
80°	546	605	576
85°	378	386	371



TEST NUMBER: P489776

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-50-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	3.8
10°-20°	220.5	10.0
20°-30°	320.7	14.5
30°-40°	381.6	17.2
40°-50°	396.2	17.9
50°-60°	359.0	16.2
60°-70°	270.9	12.2
70°-80°	147.6	6.7
80°-90°	32.4	1.5
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°	625.4	28.3
0°-40°	1007.0	45.5
0°-60°	1762.3	79.6
0°-90°	2213.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2213.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	911	909	905	904	905	85
15°	780	778	779	784	787	220
25°	685	691	696	702	700	316
35°	594	601	611	621	618	371
45°	493	502	519	525	525	381
55°	380	390	410	413	411	340
65°	256	264	282	282	280	253
75°	129	134	143	144	141	138
85°	24	25	25	25	24	31
90°	0	0	0	0	0	



TEST NUMBER: P489776

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-50-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	952.8	952.8	952.8	952.8	952.8
2.5°	944.5	943.5	940.4	939.2	939.0
5°	911.4	909.2	905.0	904.5	905.0
7.5°	871.9	869.5	865.2	866.9	869.0
10°	838.5	832.6	830.9	833.3	837.3
12.5°	808.8	804.0	802.6	808.8	811.6
15°	780.4	778.5	779.0	784.3	786.6
17.5°	755.9	754.7	757.8	761.9	763.1
20°	731.4	733.8	736.6	740.9	742.3
22.5°	707.4	711.9	716.6	722.3	720.4
25°	685.2	690.9	696.4	702.1	700.5
27.5°	661.6	668.3	675.9	682.1	679.7
30°	639.0	647.3	654.7	662.3	658.8
32.5°	616.6	624.5	633.3	642.6	638.5
35°	594.0	601.2	611.4	620.7	617.6
37.5°	569.0	577.8	589.5	597.6	595.5
40°	545.7	553.8	567.8	573.1	572.6
42.5°	522.1	528.8	543.5	549.5	548.5
45°	493.3	502.1	519.0	524.7	525.2
47.5°	467.8	475.2	493.3	497.8	498.8
50°	438.6	447.8	465.9	471.4	472.1
52.5°	409.7	419.7	438.3	442.1	442.8
55°	380.5	389.5	409.7	412.6	411.4
57.5°	349.8	360.7	379.3	380.7	381.9
60°	319.7	329.3	347.4	349.3	346.7
62.5°	287.1	296.9	315.5	315.9	313.8
65°	256.2	263.6	282.4	281.9	280.5
67.5°	223.8	232.8	246.7	247.1	246.0
70°	193.6	199.7	213.1	213.3	210.5
72.5°	161.0	167.6	178.3	176.9	176.2
75°	129.3	134.5	142.9	143.8	141.4
77.5°	100.2	104.0	110.2	109.5	106.9
80°	70.5	73.6	78.1	77.1	74.3
82.5°	45.0	46.9	49.8	48.6	47.4
85°	24.5	24.8	25.0	24.8	24.0
87.5°	9.0	9.3	9.3	9.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)