

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: P489754

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1HI-20-120-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: P489754  
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-LD4-1HI-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

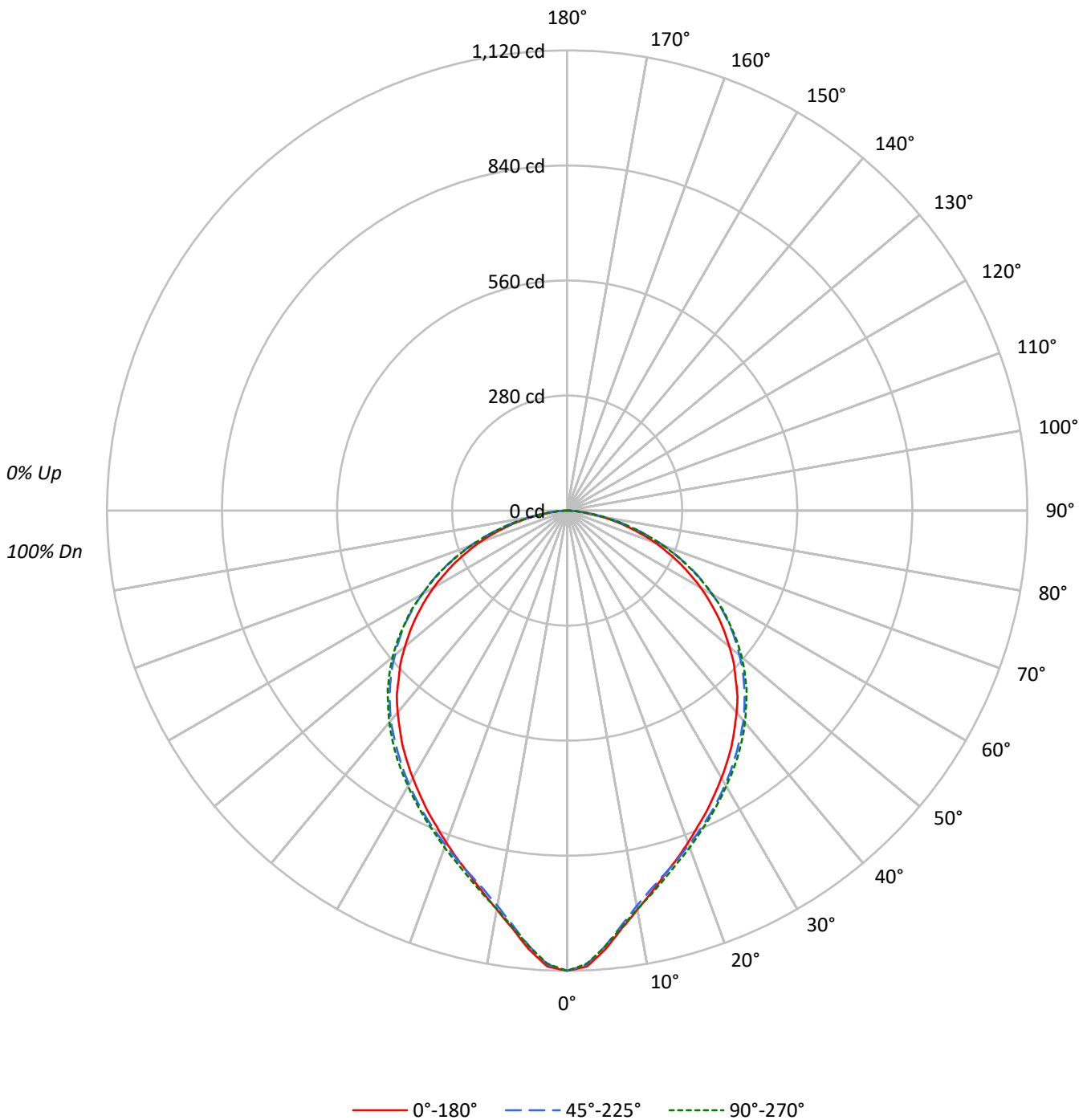
Lumens per Lamp: N/A  
Luminaire Lumens: 2601.7 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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### Luminous Intensity Polar Plot





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**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°	1507	1507	1507
5°	1447	1437	1437
10°	1347	1335	1345
15°	1278	1276	1288
20°	1231	1240	1250
25°	1196	1215	1222
30°	1167	1196	1203
35°	1147	1180	1192
40°	1127	1172	1182
45°	1103	1161	1175
50°	1079	1146	1162
55°	1049	1130	1134
60°	1012	1099	1097
65°	959	1057	1050
70°	895	985	973
75°	790	873	864
80°	642	711	676
85°	445	454	437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	3.8
10°-20°	259.2	10.0
20°-30°	377.0	14.5
30°-40°	448.6	17.2
40°-50°	465.8	17.9
50°-60°	422.0	16.2
60°-70°	318.4	12.2
70°-80°	173.5	6.7
80°-90°	38.1	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°	735.2	28.3
0°-40°	1183.8	45.5
0°-60°	2071.6	79.6
0°-90°	2601.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2601.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1071	1069	1064	1063	1064	99
15°	917	915	916	922	925	259
25°	806	812	819	825	823	371
35°	698	707	719	730	726	437
45°	580	590	610	617	617	448
55°	447	458	482	485	484	399
65°	301	310	332	331	330	298
75°	152	158	168	169	166	162
85°	29	29	29	29	28	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1120.1	1120.1	1120.1	1120.1	1120.1
2.5°	1110.3	1109.2	1105.5	1104.1	1103.8
5°	1071.4	1068.9	1063.8	1063.3	1063.8
7.5°	1024.9	1022.1	1017.1	1019.0	1021.6
10°	985.7	978.7	976.8	979.6	984.3
12.5°	950.7	945.1	943.5	950.7	954.1
15°	917.4	915.2	915.8	921.9	924.7
17.5°	888.6	887.2	890.9	895.6	897.0
20°	859.8	862.6	865.9	871.0	872.7
22.5°	831.5	836.8	842.4	849.1	846.9
25°	805.5	812.2	818.6	825.4	823.4
27.5°	777.8	785.6	794.6	801.9	799.0
30°	751.2	761.0	769.7	778.6	774.4
32.5°	724.9	734.1	744.5	755.4	750.6
35°	698.3	706.7	718.7	729.6	726.0
37.5°	668.9	679.3	693.0	702.5	700.0
40°	641.5	651.0	667.5	673.7	673.1
42.5°	613.8	621.6	639.0	646.0	644.8
45°	579.9	590.3	610.1	616.9	617.4
47.5°	550.0	558.6	579.9	585.2	586.3
50°	515.5	526.5	547.7	554.1	555.0
52.5°	481.7	493.4	515.3	519.7	520.6
55°	447.2	457.9	481.7	485.0	483.6
57.5°	411.1	424.0	445.9	447.5	448.9
60°	375.9	387.1	408.3	410.6	407.5
62.5°	337.5	349.0	370.8	371.4	368.9
65°	301.1	309.8	331.9	331.4	329.7
67.5°	263.1	273.7	290.0	290.5	289.1
70°	227.5	234.8	250.5	250.8	247.4
72.5°	189.2	197.0	209.6	208.0	207.1
75°	152.0	158.1	167.9	169.1	166.2
77.5°	117.8	122.3	129.6	128.8	125.7
80°	82.8	86.5	91.8	90.7	87.3
82.5°	52.9	55.1	58.5	57.1	55.7
85°	28.8	29.1	29.4	29.1	28.3
87.5°	10.6	10.9	10.9	10.6	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)