

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: P488531

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-20-120-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: P488531  
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-20-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

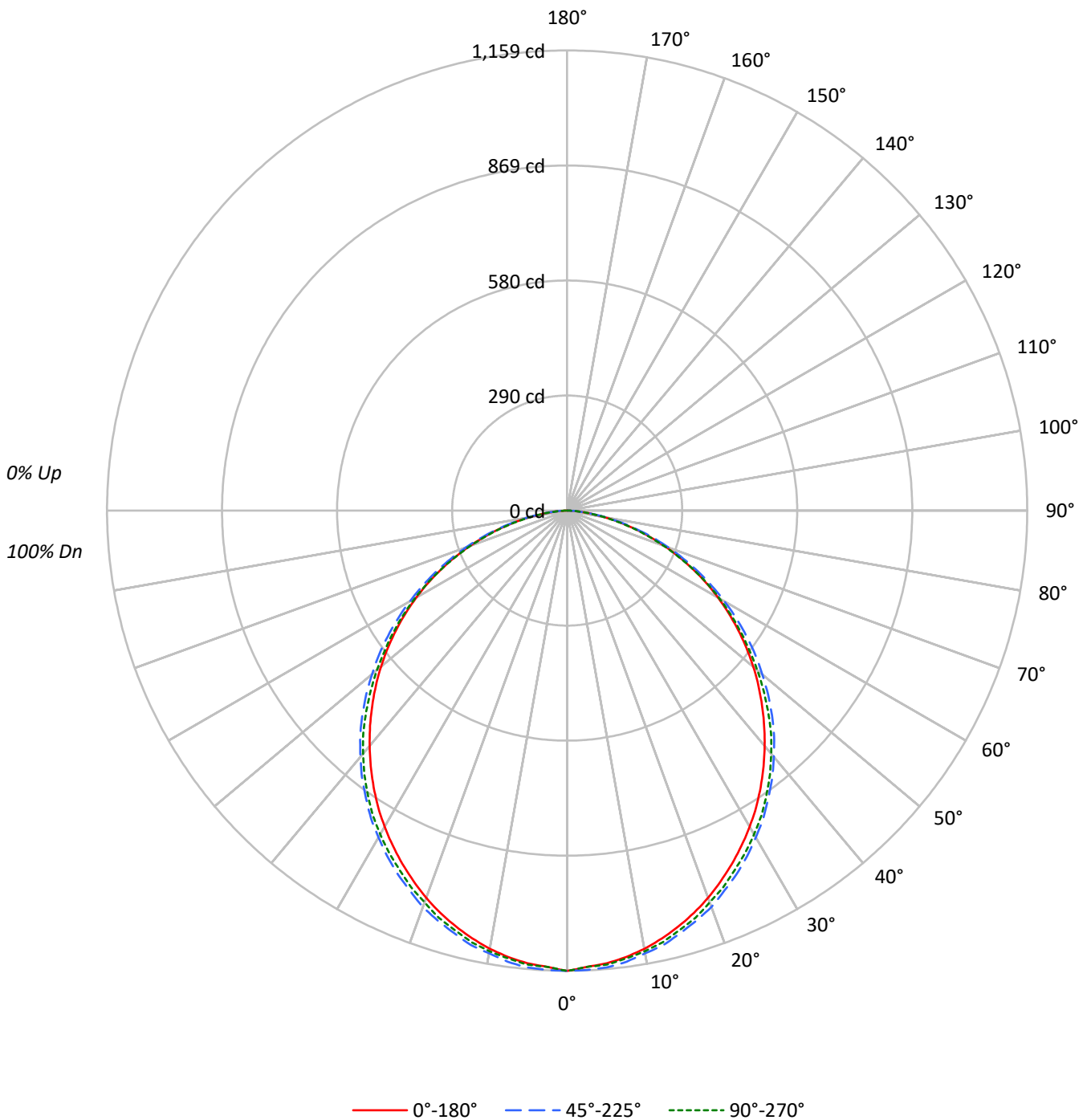
Lumens per Lamp: N/A  
Luminaire Lumens: 3048.2 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	3120	3120	3120
5°	3091	3120	3101
10°	3063	3094	3079
15°	3020	3069	3048
20°	2973	3044	3007
25°	2915	2999	2965
30°	2856	2953	2926
35°	2792	2902	2875
40°	2719	2844	2808
45°	2643	2776	2724
50°	2563	2687	2617
55°	2471	2586	2507
60°	2365	2463	2387
65°	2229	2315	2230
70°	2051	2134	2028
75°	1806	1888	1779
80°	1468	1531	1450
85°	1022	1090	1062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	3.6
10°-20°	309.4	10.2
20°-30°	461.5	15.1
30°-40°	546.9	17.9
40°-50°	553.4	18.2
50°-60°	483.3	15.9
60°-70°	353.2	11.6
70°-80°	187.9	6.2
80°-90°	43.4	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°	880.1	28.9
0°-40°	1427.0	46.8
0°-60°	2463.7	80.8
0°-90°	3048.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1144	1146	1155	1158	1148	109
15°	1084	1091	1102	1108	1094	306
25°	982	994	1010	1014	999	452
35°	850	863	884	890	875	531
45°	694	707	730	730	716	536
55°	527	537	551	543	534	471
65°	350	357	364	356	350	346
75°	174	178	182	175	171	185
85°	33	34	35	36	34	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1159.4	1159.4	1159.4	1159.4	1159.4
2.5°	1150.4	1154.1	1158.0	1159.7	1150.2
5°	1144.3	1146.5	1155.1	1157.7	1148.0
7.5°	1134.4	1137.7	1146.0	1147.2	1137.8
10°	1120.9	1126.7	1132.2	1138.3	1126.8
12.5°	1103.6	1111.5	1120.9	1122.0	1113.3
15°	1084.2	1091.4	1101.7	1108.3	1094.0
17.5°	1062.4	1069.4	1082.7	1083.9	1075.2
20°	1038.1	1046.8	1062.8	1065.6	1050.0
22.5°	1010.6	1022.3	1035.6	1038.3	1026.8
25°	981.7	993.8	1010.2	1014.0	998.6
27.5°	951.5	963.1	981.6	984.3	971.3
30°	919.2	930.0	950.3	954.8	941.6
32.5°	886.3	897.2	919.6	923.4	910.6
35°	849.8	863.1	883.5	889.7	875.3
37.5°	812.6	825.5	848.7	854.3	838.8
40°	774.1	786.9	809.7	814.3	799.4
42.5°	734.7	747.5	771.9	772.6	760.3
45°	694.5	706.8	729.5	730.1	715.7
47.5°	653.6	666.1	686.4	684.1	670.6
50°	612.3	624.2	641.9	637.3	625.1
52.5°	569.6	581.0	597.8	590.3	578.9
55°	526.6	537.2	551.2	543.2	534.3
57.5°	483.2	493.9	504.7	496.6	488.9
60°	439.5	448.9	457.7	449.5	443.6
62.5°	395.0	403.1	410.7	402.9	397.3
65°	350.1	357.2	363.5	356.2	350.3
67.5°	305.4	311.4	317.2	309.7	303.6
70°	260.7	265.9	271.2	263.5	257.8
72.5°	216.6	221.2	225.9	218.4	213.5
75°	173.7	177.7	181.6	174.9	171.1
77.5°	132.8	136.1	138.8	134.6	130.8
80°	94.7	97.2	98.8	97.1	93.6
82.5°	60.9	62.7	63.5	63.4	61.1
85°	33.1	33.7	35.3	35.6	34.4
87.5°	12.8	13.7	14.0	15.1	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)