

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: P488351

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-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: P488351  
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-12-2-INS-A12125-LD4-2HI-20-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

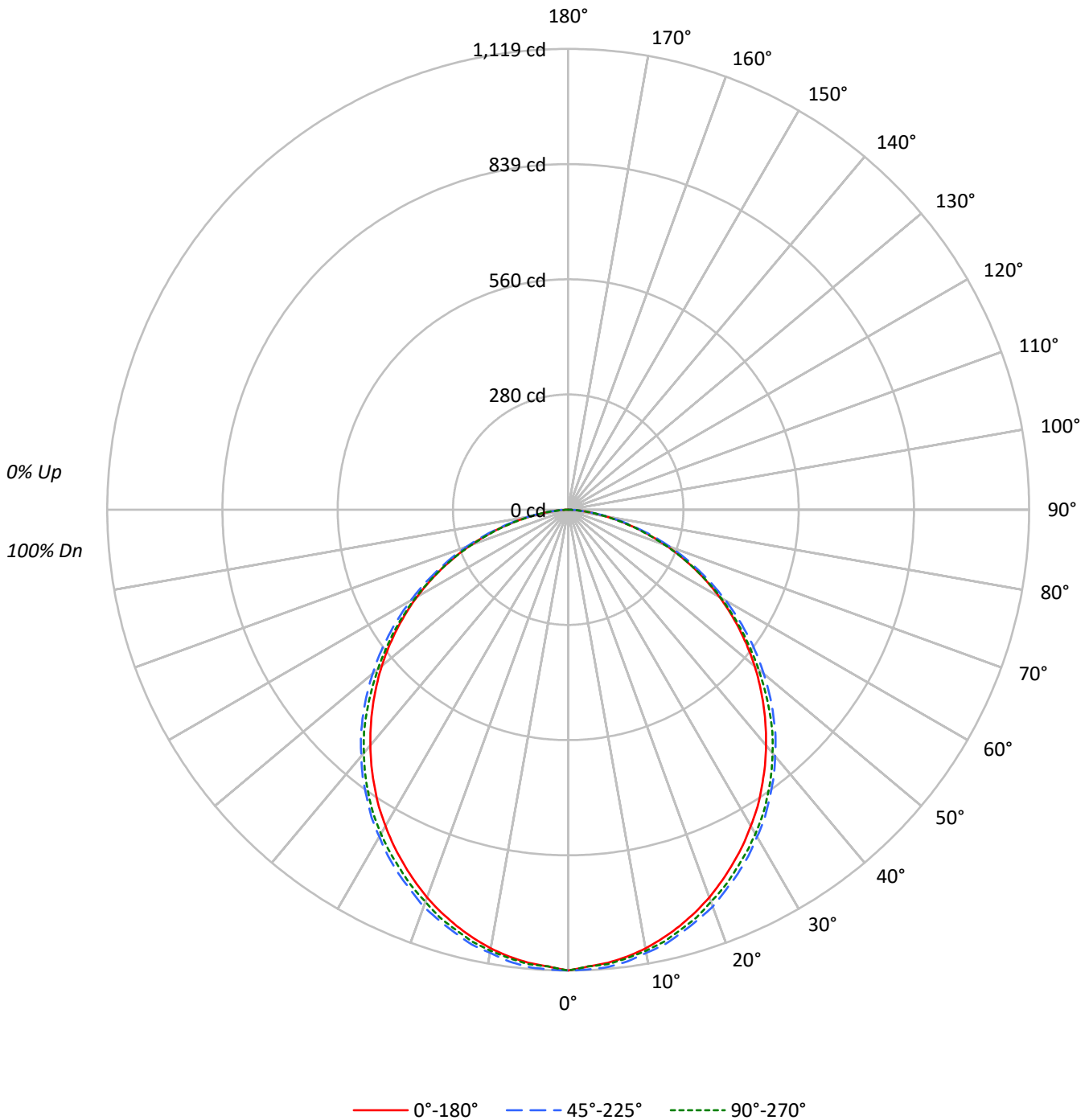
Lumens per Lamp: N/A  
Luminaire Lumens: 2941.7 lumens  
Efficiency: N/A  
Efficacy: 68.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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	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°	6022	6022	6022
5°	5966	6022	5985
10°	5911	5972	5943
15°	5830	5924	5882
20°	5738	5875	5804
25°	5626	5789	5723
30°	5512	5699	5647
35°	5388	5602	5550
40°	5248	5490	5420
45°	5101	5358	5257
50°	4948	5187	5051
55°	4769	4991	4838
60°	4565	4754	4608
65°	4302	4467	4306
70°	3959	4118	3915
75°	3485	3643	3433
80°	2833	2957	2799
85°	1970	2100	2050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.4	3.6
10°-20°	298.6	10.2
20°-30°	445.4	15.1
30°-40°	527.8	17.9
40°-50°	534.0	18.2
50°-60°	466.4	15.9
60°-70°	340.8	11.6
70°-80°	181.4	6.2
80°-90°	41.9	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°	849.4	28.9
0°-40°	1377.2	46.8
0°-60°	2377.6	80.8
0°-90°	2941.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1104	1106	1115	1117	1108	105
15°	1046	1053	1063	1070	1056	295
25°	947	959	975	979	964	436
35°	820	833	853	859	845	513
45°	670	682	704	705	691	517
55°	508	518	532	524	516	454
65°	338	345	351	344	338	334
75°	168	172	175	169	165	178
85°	32	32	34	34	33	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1118.9	1118.9	1118.9	1118.9	1118.9
2.5°	1110.2	1113.8	1117.5	1119.2	1110.1
5°	1104.3	1106.4	1114.7	1117.3	1107.8
7.5°	1094.8	1097.9	1106.0	1107.1	1098.1
10°	1081.7	1087.3	1092.7	1098.5	1087.4
12.5°	1065.1	1072.6	1081.7	1082.8	1074.4
15°	1046.3	1053.3	1063.2	1069.6	1055.7
17.5°	1025.3	1032.1	1044.9	1046.1	1037.7
20°	1001.9	1010.3	1025.7	1028.3	1013.3
22.5°	975.3	986.6	999.4	1002.0	990.9
25°	947.4	959.1	974.9	978.6	963.8
27.5°	918.3	929.5	947.3	949.9	937.4
30°	887.0	897.5	917.1	921.4	908.7
32.5°	855.3	865.8	887.5	891.1	878.8
35°	820.1	833.0	852.7	858.6	844.7
37.5°	784.2	796.7	819.1	824.4	809.5
40°	747.0	759.4	781.4	785.9	771.5
42.5°	709.0	721.4	744.9	745.6	733.7
45°	670.2	682.1	704.0	704.6	690.7
47.5°	630.8	642.8	662.4	660.2	647.1
50°	590.9	602.4	619.5	615.1	603.3
52.5°	549.7	560.7	576.9	569.7	558.6
55°	508.2	518.4	531.9	524.3	515.6
57.5°	466.3	476.7	487.1	479.3	471.8
60°	424.1	433.2	441.7	433.8	428.1
62.5°	381.2	389.0	396.4	388.8	383.4
65°	337.8	344.7	350.8	343.8	338.1
67.5°	294.7	300.5	306.1	298.9	293.0
70°	251.6	256.6	261.7	254.3	248.8
72.5°	209.0	213.5	218.0	210.8	206.0
75°	167.6	171.5	175.2	168.8	165.1
77.5°	128.1	131.4	133.9	129.9	126.3
80°	91.4	93.8	95.4	93.7	90.3
82.5°	58.8	60.5	61.3	61.2	59.0
85°	31.9	32.5	34.0	34.4	33.2
87.5°	12.4	13.2	13.5	14.6	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)