

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: P488878

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1STD-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: P488878  
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-24-2-INS-A12125-LD4-1STD-20-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

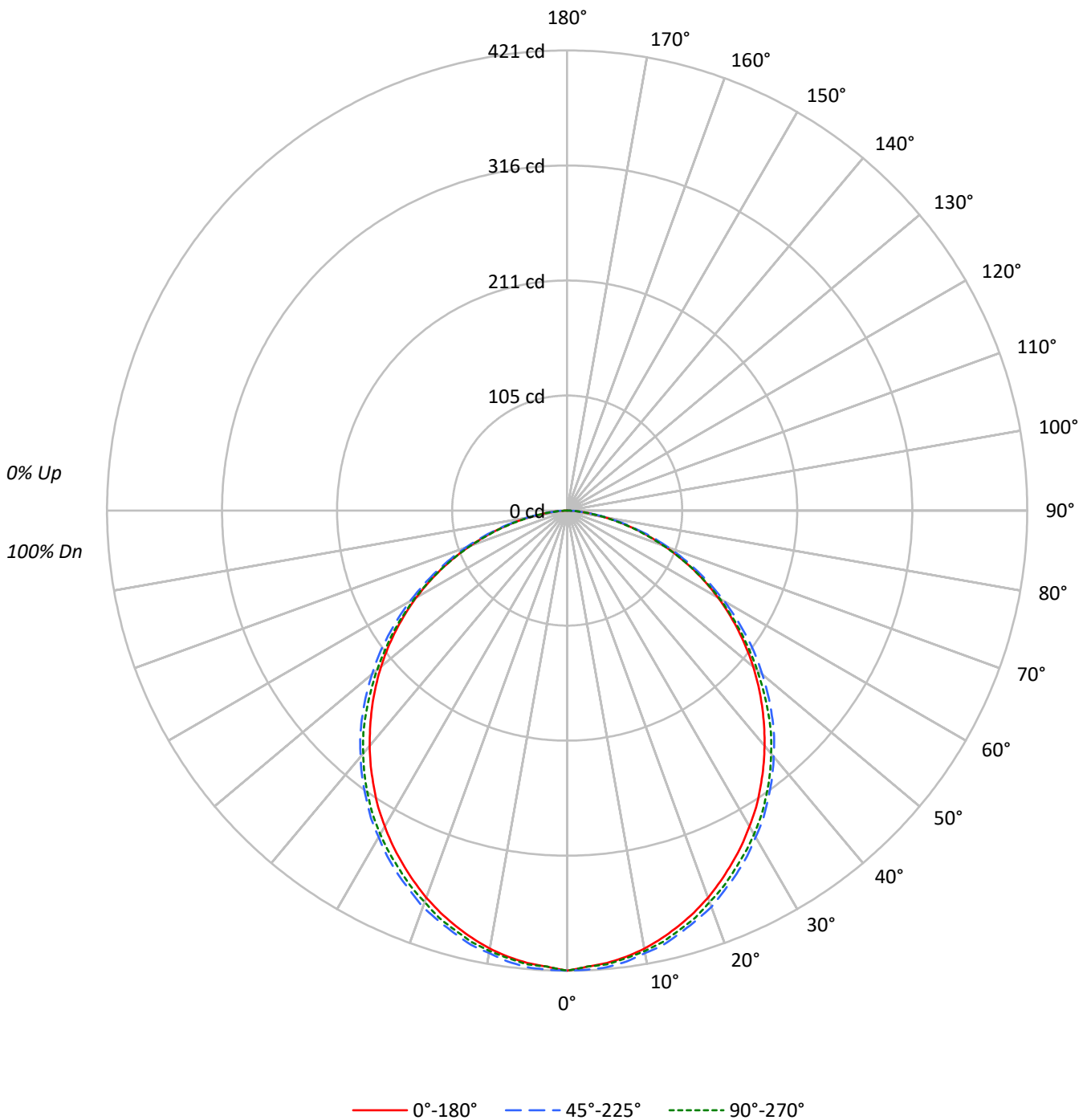
Lumens per Lamp: N/A  
Luminaire Lumens: 1106.7 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	1133	1133	1133
5°	1122	1133	1126
10°	1112	1123	1118
15°	1097	1114	1107
20°	1079	1105	1092
25°	1058	1089	1077
30°	1037	1072	1062
35°	1013	1054	1044
40°	987	1033	1020
45°	959	1008	989
50°	931	976	950
55°	897	939	910
60°	859	894	866
65°	809	840	810
70°	744	775	736
75°	656	685	646
80°	533	556	527
85°	371	395	386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.6	3.6
10°-20°	112.3	10.2
20°-30°	167.6	15.1
30°-40°	198.6	17.9
40°-50°	200.9	18.2
50°-60°	175.5	15.9
60°-70°	128.2	11.6
70°-80°	68.2	6.2
80°-90°	15.8	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°	319.6	28.9
0°-40°	518.1	46.8
0°-60°	894.5	80.8
0°-90°	1106.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1106.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	416	416	419	420	417	39
15°	394	396	400	402	397	111
25°	356	361	367	368	363	164
35°	308	313	321	323	318	193
45°	252	257	265	265	260	194
55°	191	195	200	197	194	171
65°	127	130	132	129	127	126
75°	63	64	66	64	62	67
85°	12	12	13	13	12	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	420.9	420.9	420.9	420.9	420.9
2.5°	417.7	419.0	420.4	421.0	417.6
5°	415.5	416.3	419.4	420.3	416.8
7.5°	411.9	413.1	416.1	416.5	413.1
10°	407.0	409.1	411.1	413.3	409.1
12.5°	400.7	403.5	407.0	407.4	404.2
15°	393.6	396.3	400.0	402.4	397.2
17.5°	385.7	388.3	393.1	393.5	390.4
20°	376.9	380.1	385.9	386.9	381.2
22.5°	366.9	371.2	376.0	377.0	372.8
25°	356.4	360.8	366.8	368.1	362.6
27.5°	345.5	349.7	356.4	357.4	352.7
30°	333.7	337.7	345.0	346.7	341.9
32.5°	321.8	325.7	333.9	335.3	330.6
35°	308.5	313.4	320.8	323.0	317.8
37.5°	295.0	299.7	308.1	310.2	304.6
40°	281.0	285.7	294.0	295.6	290.3
42.5°	266.7	271.4	280.3	280.5	276.0
45°	252.1	256.6	264.9	265.1	259.9
47.5°	237.3	241.8	249.2	248.4	243.5
50°	222.3	226.6	233.1	231.4	227.0
52.5°	206.8	211.0	217.1	214.3	210.2
55°	191.2	195.0	200.1	197.2	194.0
57.5°	175.4	179.3	183.2	180.3	177.5
60°	159.6	163.0	166.2	163.2	161.0
62.5°	143.4	146.4	149.1	146.3	144.2
65°	127.1	129.7	132.0	129.3	127.2
67.5°	110.9	113.1	115.2	112.5	110.2
70°	94.6	96.5	98.5	95.7	93.6
72.5°	78.6	80.3	82.0	79.3	77.5
75°	63.1	64.5	65.9	63.5	62.1
77.5°	48.2	49.4	50.4	48.9	47.5
80°	34.4	35.3	35.9	35.3	34.0
82.5°	22.1	22.8	23.1	23.0	22.2
85°	12.0	12.2	12.8	12.9	12.5
87.5°	4.6	5.0	5.1	5.5	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)