

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: P488869

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-1LO-27-120-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: P488869  
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-LD4-1LO-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

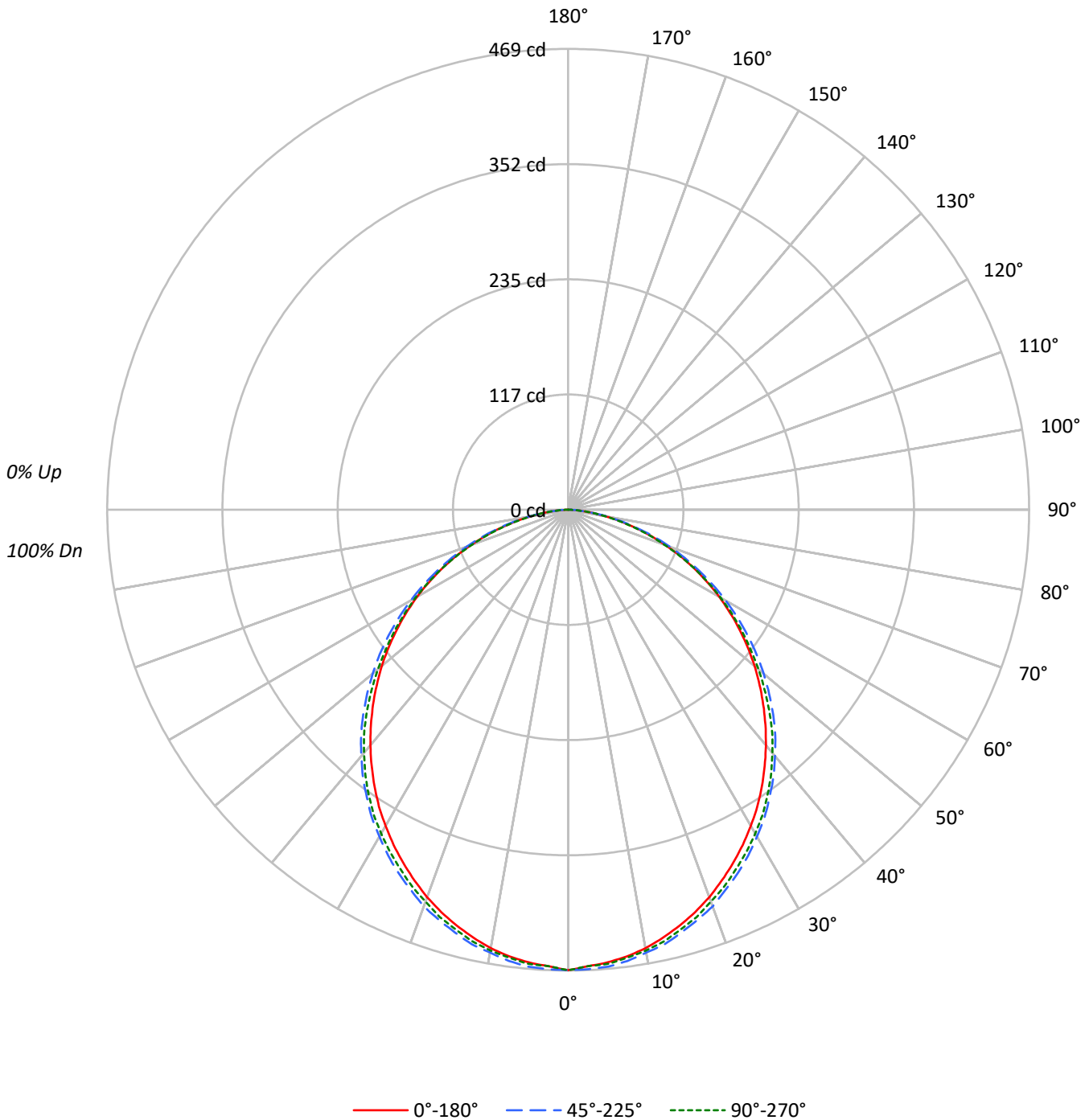
Lumens per Lamp: N/A  
Luminaire Lumens: 1232.1 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	1261	1261	1261
5°	1249	1261	1253
10°	1238	1251	1245
15°	1221	1241	1232
20°	1202	1230	1215
25°	1178	1212	1199
30°	1154	1194	1183
35°	1128	1173	1162
40°	1099	1150	1135
45°	1068	1122	1101
50°	1036	1086	1058
55°	998	1045	1013
60°	956	996	965
65°	901	935	902
70°	829	862	820
75°	730	763	718
80°	594	618	586
85°	414	442	429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	3.6
10°-20°	125.1	10.2
20°-30°	186.5	15.1
30°-40°	221.1	17.9
40°-50°	223.7	18.2
50°-60°	195.3	15.9
60°-70°	142.7	11.6
70°-80°	76.0	6.2
80°-90°	17.6	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°	355.8	28.9
0°-40°	576.8	46.8
0°-60°	995.8	80.8
0°-90°	1232.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	462	463	467	468	464	44
15°	438	441	445	448	442	124
25°	397	402	408	410	404	183
35°	344	349	357	360	354	215
45°	281	286	295	295	289	217
55°	213	217	223	220	216	190
65°	142	144	147	144	142	140
75°	70	72	73	71	69	75
85°	13	14	14	14	14	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	468.6	468.6	468.6	468.6	468.6
2.5°	465.0	466.5	468.1	468.7	464.9
5°	462.5	463.4	466.9	468.0	464.0
7.5°	458.5	459.9	463.2	463.7	459.9
10°	453.1	455.4	457.7	460.1	455.5
12.5°	446.1	449.3	453.1	453.5	450.0
15°	438.2	441.2	445.3	448.0	442.2
17.5°	429.4	432.3	437.6	438.1	434.6
20°	419.6	423.1	429.6	430.7	424.4
22.5°	408.5	413.2	418.6	419.7	415.0
25°	396.8	401.7	408.3	409.9	403.7
27.5°	384.6	389.3	396.8	397.8	392.6
30°	371.5	375.9	384.1	385.9	380.6
32.5°	358.2	362.6	371.7	373.2	368.1
35°	343.5	348.9	357.1	359.6	353.8
37.5°	328.5	333.7	343.1	345.3	339.1
40°	312.9	318.1	327.3	329.1	323.1
42.5°	297.0	302.1	312.0	312.3	307.3
45°	280.7	285.7	294.9	295.1	289.3
47.5°	264.2	269.2	277.4	276.5	271.0
50°	247.5	252.3	259.5	257.6	252.7
52.5°	230.2	234.9	241.6	238.6	234.0
55°	212.8	217.1	222.8	219.6	216.0
57.5°	195.3	199.7	204.0	200.7	197.6
60°	177.6	181.4	185.0	181.7	179.3
62.5°	159.7	162.9	166.0	162.8	160.6
65°	141.5	144.4	146.9	144.0	141.6
67.5°	123.4	125.9	128.2	125.2	122.7
70°	105.4	107.5	109.6	106.5	104.2
72.5°	87.5	89.4	91.3	88.3	86.3
75°	70.2	71.8	73.4	70.7	69.1
77.5°	53.7	55.0	56.1	54.4	52.9
80°	38.3	39.3	39.9	39.3	37.8
82.5°	24.6	25.3	25.7	25.6	24.7
85°	13.4	13.6	14.3	14.4	13.9
87.5°	5.2	5.5	5.7	6.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)