

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: P488331

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-30-120-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: P488331  
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-LD4-1LO-30-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

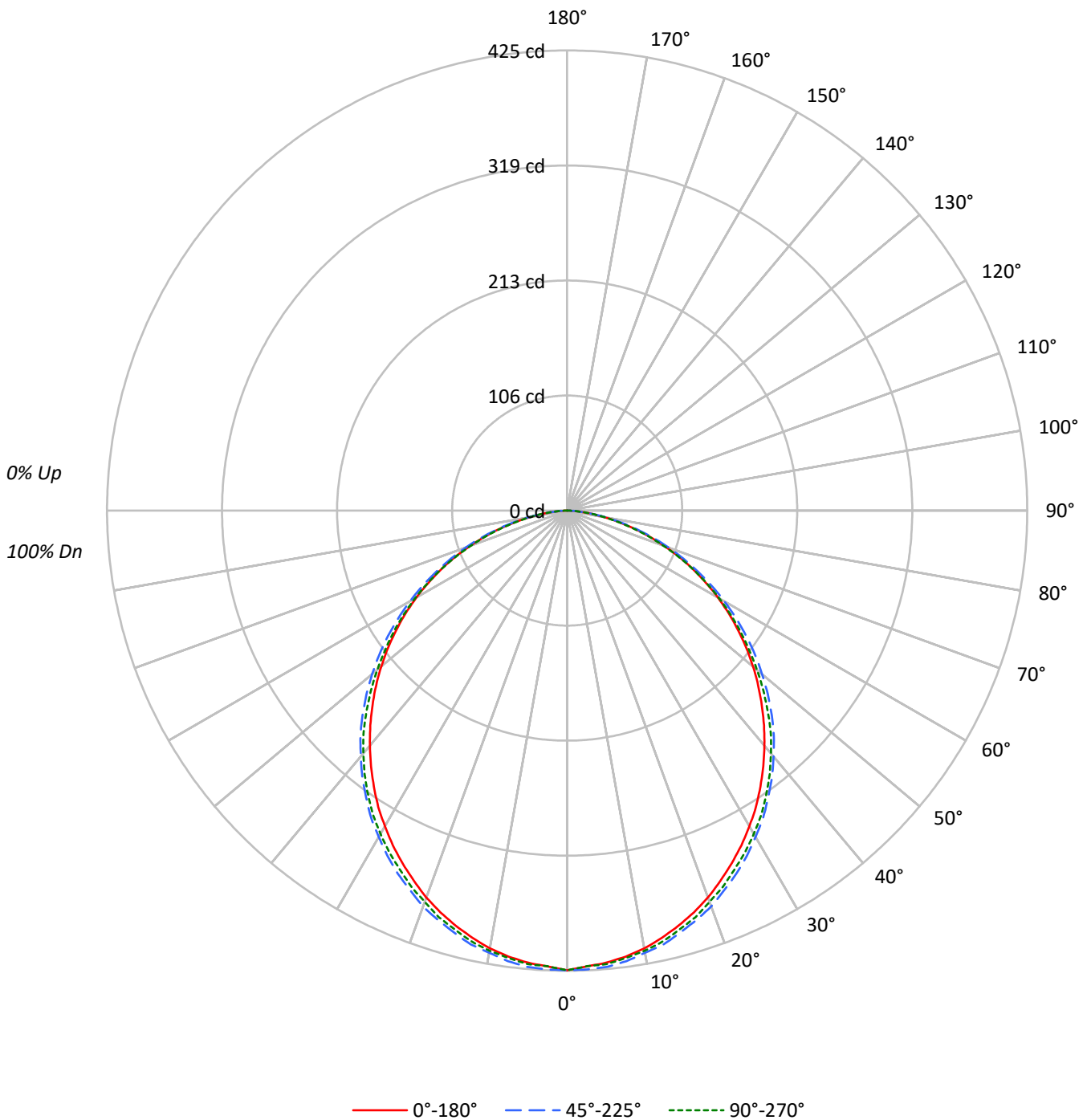
Lumens per Lamp: N/A  
Luminaire Lumens: 1116.3 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2285	2285	2285
5°	2264	2285	2271
10°	2243	2266	2255
15°	2212	2248	2232
20°	2178	2229	2202
25°	2135	2197	2172
30°	2092	2163	2143
35°	2045	2126	2106
40°	1992	2083	2057
45°	1936	2034	1995
50°	1877	1968	1917
55°	1809	1894	1836
60°	1732	1804	1748
65°	1633	1695	1634
70°	1503	1563	1485
75°	1323	1383	1302
80°	1075	1122	1063
85°	747	797	778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	3.6
10°-20°	113.3	10.2
20°-30°	169.0	15.1
30°-40°	200.3	17.9
40°-50°	202.7	18.2
50°-60°	177.0	15.9
60°-70°	129.3	11.6
70°-80°	68.8	6.2
80°-90°	15.9	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°	322.3	28.9
0°-40°	522.6	46.8
0°-60°	902.2	80.8
0°-90°	1116.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	425	425	425	425	425	
5°	419	420	423	424	420	40
15°	397	400	404	406	401	112
25°	360	364	370	371	366	166
35°	311	316	324	326	321	195
45°	254	259	267	267	262	196
55°	193	197	202	199	196	172
65°	128	131	133	130	128	127
75°	64	65	66	64	63	68
85°	12	12	13	13	13	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	424.6	424.6	424.6	424.6	424.6
2.5°	421.3	422.7	424.1	424.7	421.2
5°	419.1	419.9	423.0	424.0	420.4
7.5°	415.4	416.6	419.7	420.1	416.7
10°	410.5	412.6	414.6	416.9	412.7
12.5°	404.2	407.0	410.5	410.9	407.7
15°	397.0	399.7	403.5	405.9	400.6
17.5°	389.1	391.6	396.5	397.0	393.8
20°	380.2	383.4	389.2	390.2	384.5
22.5°	370.1	374.4	379.3	380.2	376.0
25°	359.5	363.9	370.0	371.3	365.7
27.5°	348.5	352.7	359.5	360.5	355.7
30°	336.6	340.6	348.0	349.7	344.8
32.5°	324.6	328.6	336.8	338.2	333.5
35°	311.2	316.1	323.6	325.8	320.6
37.5°	297.6	302.3	310.8	312.9	307.2
40°	283.5	288.2	296.5	298.2	292.8
42.5°	269.1	273.7	282.7	282.9	278.4
45°	254.3	258.8	267.2	267.4	262.1
47.5°	239.4	243.9	251.4	250.5	245.6
50°	224.2	228.6	235.1	233.4	228.9
52.5°	208.6	212.8	218.9	216.2	212.0
55°	192.8	196.7	201.9	198.9	195.7
57.5°	177.0	180.9	184.8	181.9	179.0
60°	160.9	164.4	167.6	164.6	162.4
62.5°	144.7	147.6	150.4	147.5	145.5
65°	128.2	130.8	133.1	130.5	128.3
67.5°	111.8	114.0	116.2	113.4	111.2
70°	95.5	97.4	99.3	96.5	94.4
72.5°	79.3	81.0	82.7	80.0	78.2
75°	63.6	65.1	66.5	64.1	62.6
77.5°	48.6	49.9	50.8	49.3	47.9
80°	34.7	35.6	36.2	35.6	34.3
82.5°	22.3	23.0	23.3	23.2	22.4
85°	12.1	12.3	12.9	13.1	12.6
87.5°	4.7	5.0	5.1	5.5	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)