

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: P488335

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1LO-40-120-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: P488335  
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-40-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

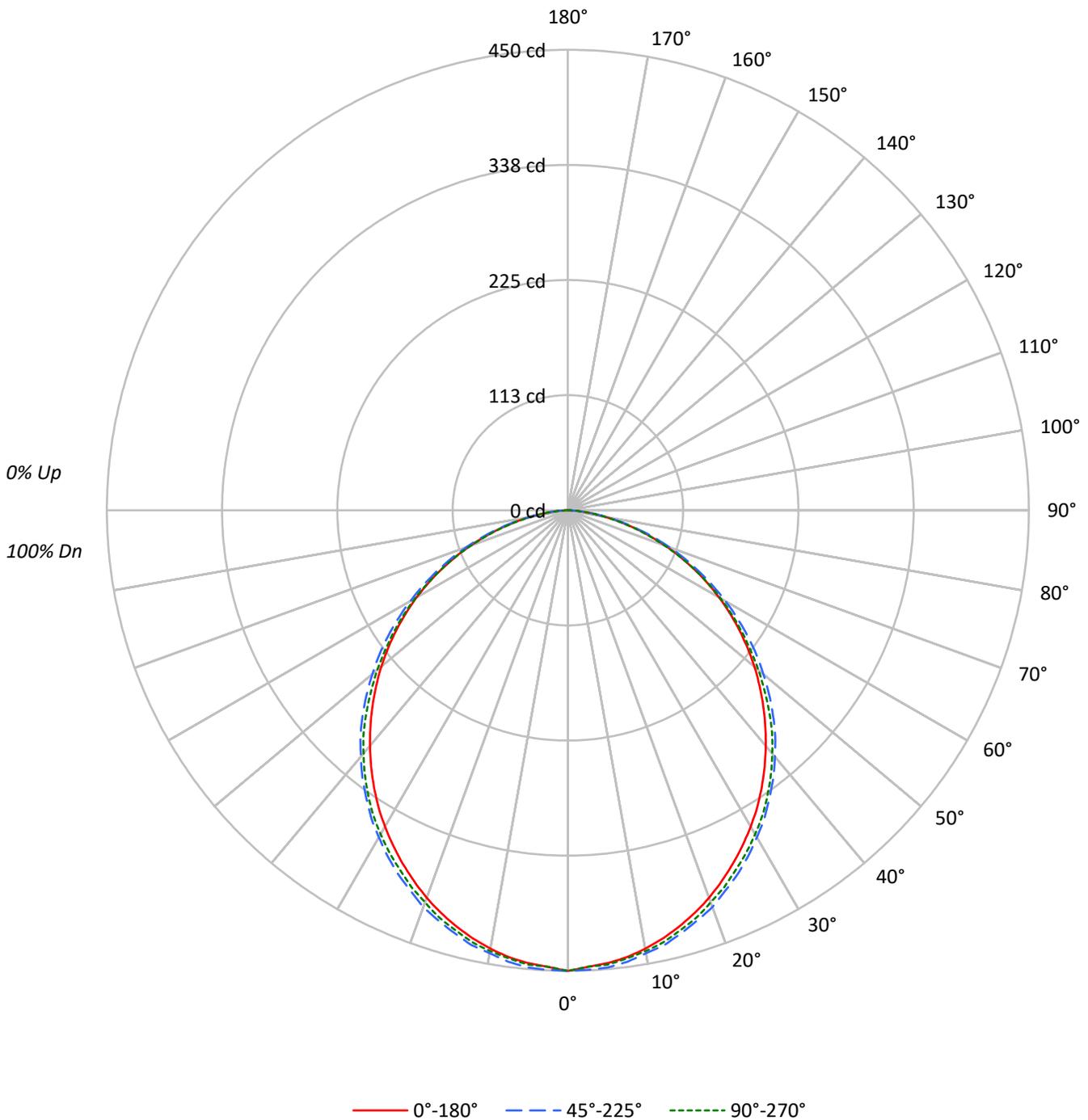
Lumens per Lamp: N/A  
Luminaire Lumens: 1183.3 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	2422	2422	2422
5°	2400	2422	2407
10°	2378	2402	2390
15°	2345	2383	2366
20°	2308	2363	2334
25°	2263	2329	2302
30°	2217	2293	2271
35°	2167	2254	2233
40°	2111	2208	2180
45°	2052	2156	2114
50°	1990	2087	2032
55°	1918	2008	1946
60°	1836	1913	1854
65°	1731	1797	1732
70°	1592	1657	1575
75°	1402	1466	1381
80°	1141	1190	1125
85°	790	846	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.4	3.6
10°-20°	120.1	10.2
20°-30°	179.2	15.1
30°-40°	212.3	17.9
40°-50°	214.8	18.2
50°-60°	187.6	15.9
60°-70°	137.1	11.6
70°-80°	73.0	6.2
80°-90°	16.9	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°	341.7	28.9
0°-40°	554.0	46.8
0°-60°	956.4	80.8
0°-90°	1183.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	444	445	448	449	446	42
15°	421	424	428	430	425	119
25°	381	386	392	394	388	176
35°	330	335	343	345	340	206
45°	270	274	283	283	278	208
55°	204	208	214	211	207	183
65°	136	139	141	138	136	134
75°	67	69	70	68	66	72
85°	13	13	14	14	13	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	450.1	450.1	450.1	450.1	450.1
2.5°	446.6	448.0	449.5	450.2	446.5
5°	444.2	445.1	448.4	449.4	445.6
7.5°	440.4	441.6	444.9	445.3	441.7
10°	435.1	437.4	439.5	441.9	437.4
12.5°	428.4	431.5	435.1	435.5	432.2
15°	420.9	423.7	427.7	430.2	424.7
17.5°	412.4	415.1	420.3	420.8	417.4
20°	403.0	406.4	412.6	413.6	407.6
22.5°	392.3	396.9	402.0	403.1	398.6
25°	381.1	385.8	392.2	393.6	387.7
27.5°	369.4	373.9	381.1	382.1	377.1
30°	356.8	361.0	368.9	370.6	365.5
32.5°	344.1	348.3	357.0	358.5	353.5
35°	329.9	335.1	343.0	345.4	339.8
37.5°	315.5	320.5	329.5	331.6	325.6
40°	300.5	305.5	314.3	316.1	310.3
42.5°	285.2	290.2	299.7	299.9	295.1
45°	269.6	274.4	283.2	283.4	277.8
47.5°	253.7	258.6	266.4	265.6	260.3
50°	237.7	242.3	249.2	247.4	242.7
52.5°	221.1	225.6	232.1	229.2	224.7
55°	204.4	208.5	214.0	210.9	207.4
57.5°	187.6	191.7	195.9	192.8	189.8
60°	170.6	174.3	177.7	174.5	172.2
62.5°	153.3	156.5	159.4	156.4	154.2
65°	135.9	138.7	141.1	138.3	136.0
67.5°	118.5	120.9	123.1	120.2	117.8
70°	101.2	103.2	105.3	102.3	100.1
72.5°	84.1	85.9	87.7	84.8	82.9
75°	67.4	69.0	70.5	67.9	66.4
77.5°	51.5	52.8	53.9	52.2	50.8
80°	36.8	37.7	38.4	37.7	36.3
82.5°	23.6	24.3	24.7	24.6	23.7
85°	12.8	13.1	13.7	13.8	13.4
87.5°	5.0	5.3	5.4	5.9	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)