

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: P488543

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-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: P488543  
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-12-4-INS-A12125-LD4-1LO-20-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

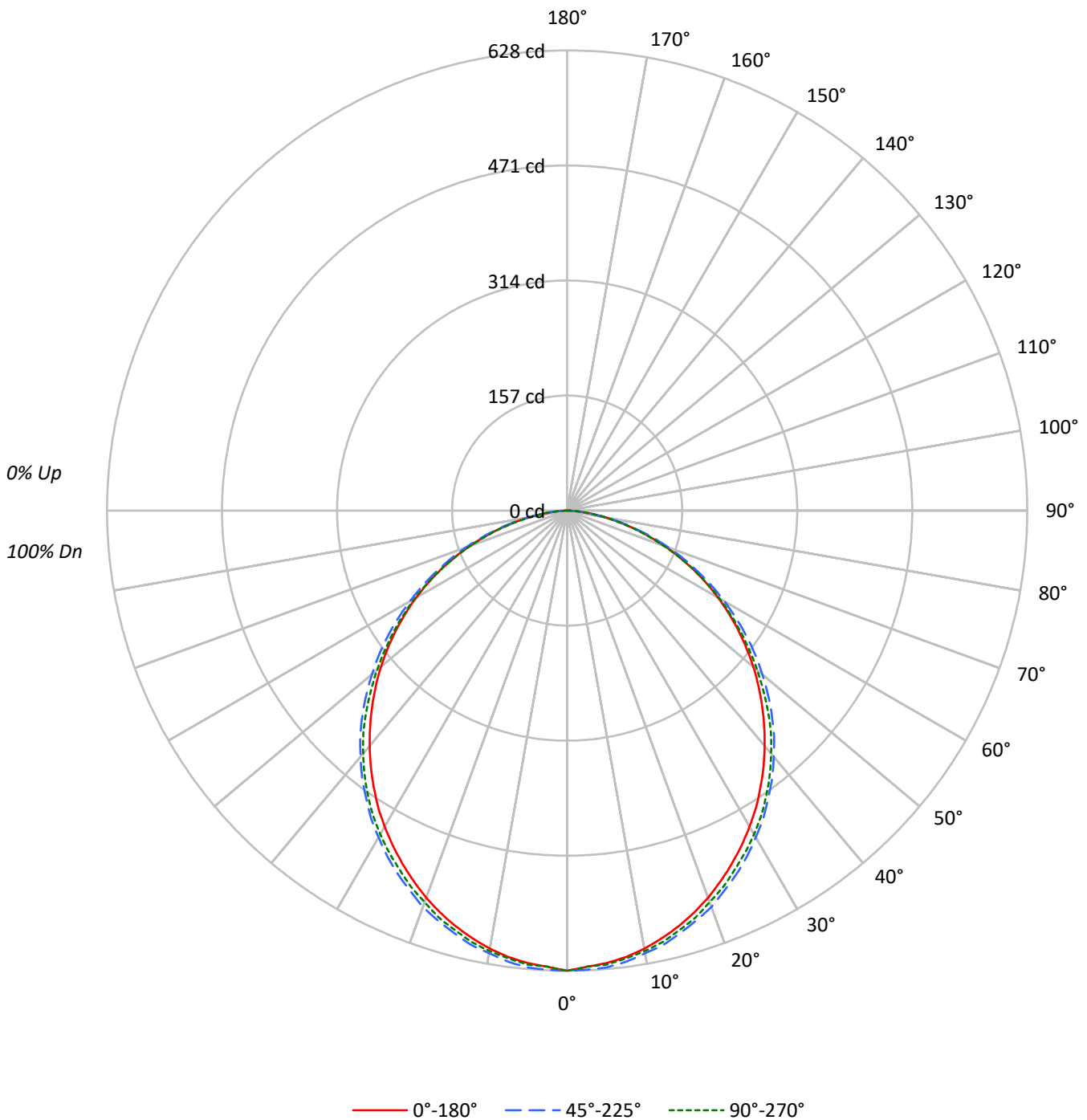
Lumens per Lamp: N/A  
Luminaire Lumens: 1651.1 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	1690	1690	1690
5°	1674	1690	1680
10°	1659	1676	1668
15°	1636	1662	1651
20°	1610	1649	1629
25°	1579	1625	1606
30°	1547	1600	1585
35°	1512	1572	1557
40°	1473	1541	1521
45°	1432	1504	1475
50°	1389	1456	1418
55°	1338	1401	1358
60°	1281	1334	1293
65°	1207	1254	1209
70°	1111	1156	1098
75°	978	1022	964
80°	795	829	786
85°	553	590	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	3.6
10°-20°	167.6	10.2
20°-30°	250.0	15.1
30°-40°	296.2	17.9
40°-50°	299.7	18.2
50°-60°	261.8	15.9
60°-70°	191.3	11.6
70°-80°	101.8	6.2
80°-90°	23.5	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°	476.7	28.9
0°-40°	773.0	46.8
0°-60°	1334.5	80.8
0°-90°	1651.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	620	621	626	627	622	59
15°	587	591	597	600	593	166
25°	532	538	547	549	541	245
35°	460	468	479	482	474	288
45°	376	383	395	396	388	290
55°	285	291	299	294	289	255
65°	190	194	197	193	190	188
75°	94	96	98	95	93	100
85°	18	18	19	19	19	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	628.0	628.0	628.0	628.0	628.0
2.5°	623.1	625.1	627.2	628.2	623.0
5°	619.8	621.0	625.7	627.1	621.8
7.5°	614.5	616.2	620.8	621.4	616.3
10°	607.1	610.3	613.3	616.6	610.4
12.5°	597.8	602.0	607.1	607.7	603.0
15°	587.3	591.2	596.7	600.3	592.6
17.5°	575.5	579.3	586.5	587.1	582.4
20°	562.3	567.0	575.7	577.2	568.7
22.5°	547.4	553.8	561.0	562.4	556.2
25°	531.8	538.3	547.2	549.2	540.9
27.5°	515.4	521.7	531.7	533.1	526.1
30°	497.9	503.8	514.8	517.2	510.0
32.5°	480.1	486.0	498.1	500.2	493.2
35°	460.3	467.5	478.6	481.9	474.1
37.5°	440.2	447.2	459.7	462.7	454.4
40°	419.3	426.2	438.6	441.1	433.0
42.5°	398.0	404.9	418.1	418.5	411.8
45°	376.2	382.8	395.1	395.5	387.7
47.5°	354.1	360.8	371.8	370.5	363.2
50°	331.7	338.1	347.7	345.2	338.6
52.5°	308.5	314.7	323.8	319.8	313.6
55°	285.2	291.0	298.6	294.2	289.4
57.5°	261.7	267.6	273.4	269.0	264.8
60°	238.0	243.1	247.9	243.5	240.3
62.5°	214.0	218.3	222.5	218.2	215.2
65°	189.6	193.5	196.9	193.0	189.8
67.5°	165.4	168.7	171.8	167.8	164.4
70°	141.2	144.0	146.9	142.7	139.6
72.5°	117.3	119.8	122.4	118.3	115.6
75°	94.1	96.3	98.3	94.7	92.7
77.5°	71.9	73.7	75.2	72.9	70.9
80°	51.3	52.7	53.5	52.6	50.7
82.5°	33.0	34.0	34.4	34.4	33.1
85°	17.9	18.3	19.1	19.3	18.6
87.5°	6.9	7.4	7.6	8.2	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)