

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: P488548

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-35-120-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: P488548  
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-35-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

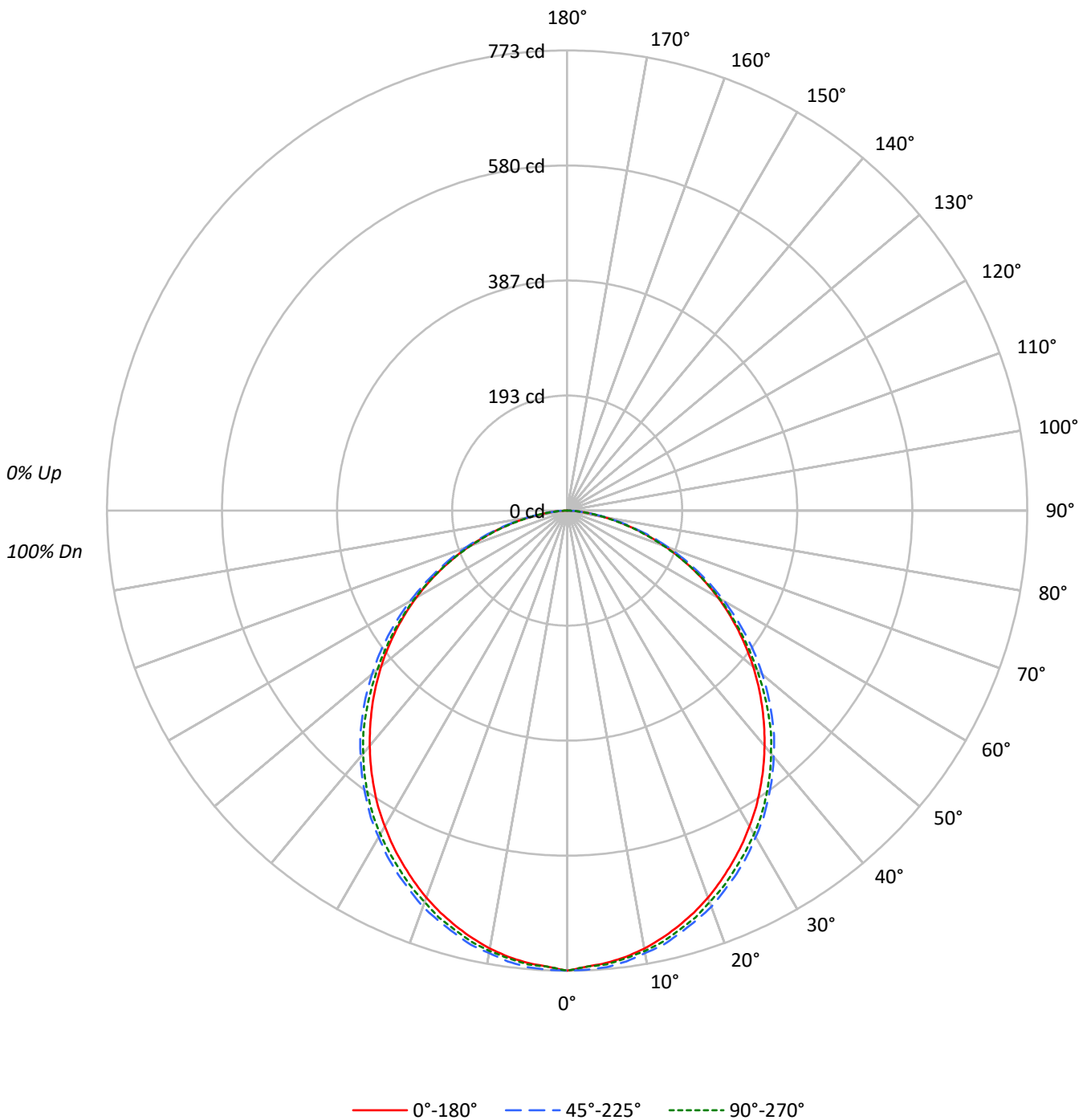
Lumens per Lamp: N/A  
Luminaire Lumens: 2031.7 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	2080	2080	2080
5°	2060	2080	2067
10°	2041	2062	2052
15°	2013	2046	2031
20°	1981	2029	2004
25°	1943	1999	1976
30°	1904	1968	1950
35°	1861	1935	1917
40°	1812	1896	1872
45°	1762	1850	1816
50°	1708	1791	1744
55°	1647	1724	1671
60°	1576	1642	1591
65°	1486	1543	1487
70°	1367	1423	1352
75°	1204	1258	1185
80°	978	1021	967
85°	682	726	707



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	3.6
10°-20°	206.2	10.2
20°-30°	307.6	15.1
30°-40°	364.5	17.9
40°-50°	368.8	18.2
50°-60°	322.1	15.9
60°-70°	235.4	11.6
70°-80°	125.2	6.2
80°-90°	29.0	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°	586.6	28.9
0°-40°	951.1	46.8
0°-60°	1642.1	80.8
0°-90°	2031.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	763	764	770	772	765	72
15°	723	728	734	739	729	204
25°	654	662	673	676	666	301
35°	566	575	589	593	583	354
45°	463	471	486	487	477	357
55°	351	358	367	362	356	314
65°	233	238	242	237	234	231
75°	116	118	121	117	114	123
85°	22	22	24	24	23	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	772.8	772.8	772.8	772.8	772.8
2.5°	766.7	769.2	771.8	772.9	766.7
5°	762.7	764.2	769.9	771.7	765.1
7.5°	756.1	758.3	763.8	764.7	758.4
10°	747.1	751.0	754.7	758.7	751.0
12.5°	735.6	740.8	747.1	747.8	742.0
15°	722.6	727.5	734.3	738.7	729.1
17.5°	708.1	712.8	721.7	722.5	716.7
20°	691.9	697.7	708.4	710.2	699.8
22.5°	673.6	681.4	690.3	692.0	684.4
25°	654.3	662.4	673.3	675.8	665.6
27.5°	634.2	641.9	654.3	656.0	647.4
30°	612.6	619.9	633.4	636.4	627.6
32.5°	590.7	598.0	613.0	615.5	606.9
35°	566.4	575.3	588.9	593.0	583.4
37.5°	541.6	550.2	565.7	569.4	559.1
40°	515.9	524.5	539.7	542.8	532.9
42.5°	489.7	498.2	514.5	515.0	506.8
45°	462.9	471.1	486.2	486.6	477.1
47.5°	435.7	444.0	457.5	456.0	446.9
50°	408.1	416.0	427.9	424.8	416.7
52.5°	379.6	387.3	398.5	393.5	385.8
55°	351.0	358.1	367.4	362.1	356.1
57.5°	322.1	329.2	336.4	331.0	325.8
60°	292.9	299.2	305.1	299.6	295.7
62.5°	263.3	268.7	273.8	268.5	264.8
65°	233.3	238.1	242.3	237.4	233.5
67.5°	203.5	207.6	211.4	206.4	202.3
70°	173.8	177.2	180.8	175.6	171.8
72.5°	144.4	147.4	150.6	145.6	142.3
75°	115.8	118.4	121.0	116.6	114.0
77.5°	88.5	90.7	92.5	89.7	87.2
80°	63.1	64.8	65.9	64.7	62.4
82.5°	40.6	41.8	42.4	42.3	40.7
85°	22.1	22.5	23.5	23.8	22.9
87.5°	8.5	9.1	9.3	10.1	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)