

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: P488555

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-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: P488555  
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-LD4-1STD-20-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

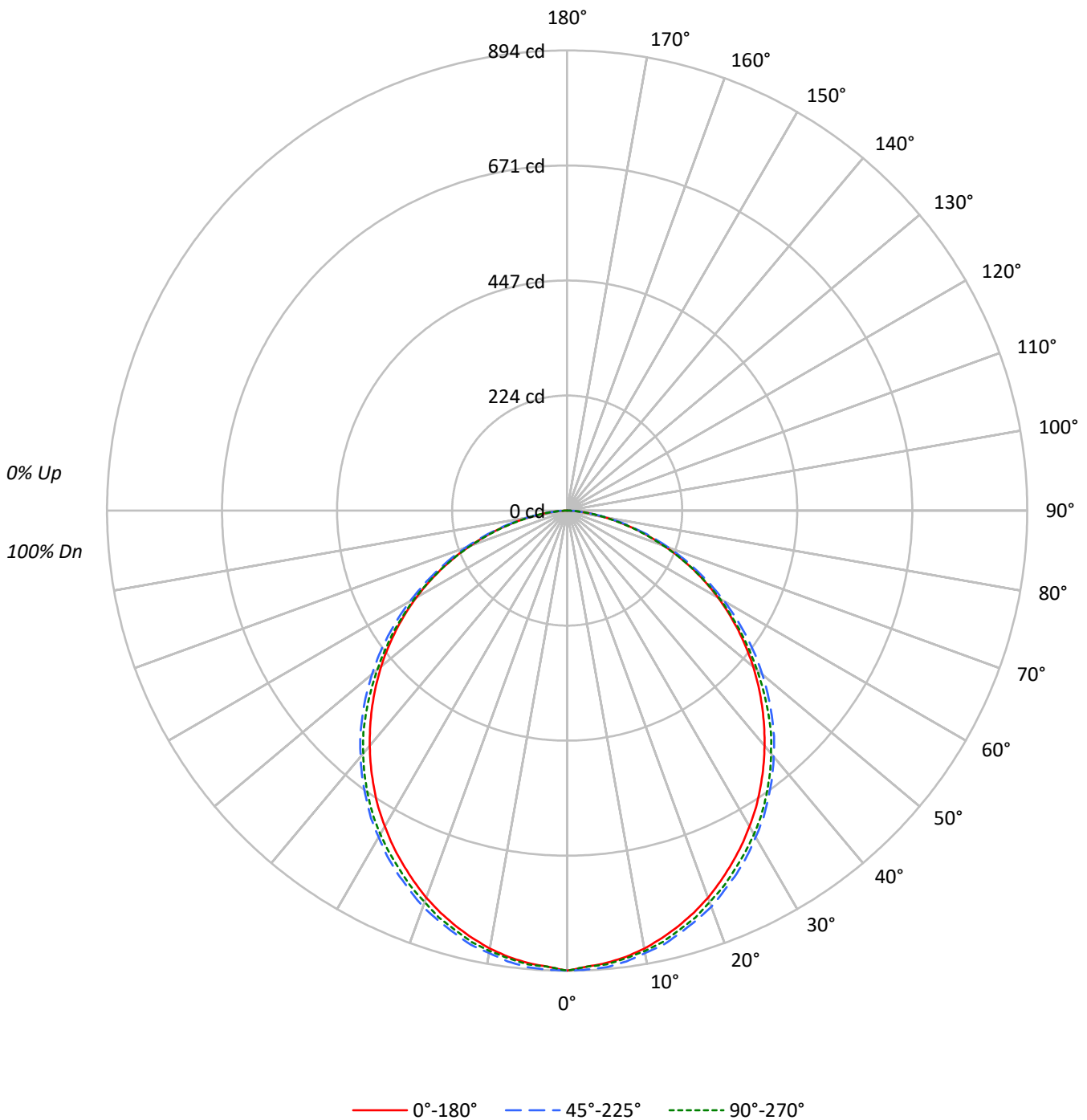
Lumens per Lamp: N/A  
Luminaire Lumens: 2349.7 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	2405	2405	2405
5°	2383	2405	2390
10°	2361	2385	2373
15°	2328	2366	2349
20°	2292	2346	2318
25°	2247	2312	2286
30°	2202	2276	2256
35°	2152	2237	2216
40°	2096	2193	2165
45°	2037	2140	2100
50°	1976	2071	2017
55°	1904	1993	1932
60°	1823	1899	1840
65°	1719	1784	1719
70°	1581	1644	1563
75°	1392	1456	1371
80°	1131	1181	1119
85°	787	840	818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	3.6
10°-20°	238.5	10.2
20°-30°	355.8	15.1
30°-40°	421.6	17.9
40°-50°	426.6	18.2
50°-60°	372.5	15.9
60°-70°	272.2	11.6
70°-80°	144.9	6.2
80°-90°	33.5	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°	678.5	28.9
0°-40°	1100.0	46.8
0°-60°	1899.1	80.8
0°-90°	2349.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	882	884	890	892	885	84
15°	836	841	849	854	843	236
25°	757	766	779	782	770	349
35°	655	665	681	686	675	410
45°	535	545	562	563	552	413
55°	406	414	425	419	412	363
65°	270	275	280	275	270	267
75°	134	137	140	135	132	142
85°	26	26	27	28	26	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	893.7	893.7	893.7	893.7	893.7
2.5°	886.8	889.6	892.6	893.9	886.7
5°	882.1	883.8	890.4	892.4	884.9
7.5°	874.5	877.0	883.4	884.3	877.1
10°	864.0	868.5	872.8	877.4	868.6
12.5°	850.7	856.8	864.0	864.9	858.2
15°	835.7	841.3	849.2	854.4	843.3
17.5°	819.0	824.4	834.6	835.5	828.8
20°	800.3	807.0	819.2	821.4	809.4
22.5°	779.0	788.1	798.3	800.3	791.5
25°	756.8	766.1	778.7	781.6	769.8
27.5°	733.5	742.4	756.7	758.7	748.8
30°	708.5	716.9	732.6	736.0	725.9
32.5°	683.2	691.6	708.9	711.8	701.9
35°	655.1	665.3	681.1	685.8	674.7
37.5°	626.4	636.4	654.2	658.5	646.6
40°	596.7	606.6	624.2	627.7	616.3
42.5°	566.3	576.2	595.0	595.6	586.1
45°	535.3	544.8	562.3	562.8	551.7
47.5°	503.9	513.5	529.1	527.3	516.9
50°	472.0	481.1	494.8	491.3	481.9
52.5°	439.0	447.9	460.8	455.1	446.2
55°	405.9	414.1	424.9	418.7	411.9
57.5°	372.5	380.8	389.0	382.8	376.8
60°	338.8	346.0	352.8	346.5	341.9
62.5°	304.5	310.7	316.6	310.5	306.3
65°	269.9	275.3	280.2	274.6	270.0
67.5°	235.4	240.1	244.5	238.8	234.0
70°	200.9	205.0	209.0	203.1	198.7
72.5°	167.0	170.5	174.1	168.4	164.5
75°	133.9	137.0	140.0	134.8	131.9
77.5°	102.3	104.9	107.0	103.7	100.8
80°	73.0	75.0	76.2	74.9	72.2
82.5°	46.9	48.3	49.0	48.9	47.1
85°	25.5	26.0	27.2	27.5	26.5
87.5°	9.9	10.5	10.8	11.6	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)