

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: P488763

Luminaire Tested: **CLM-12-4-INS-P12125-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: P488763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-1LO-30-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

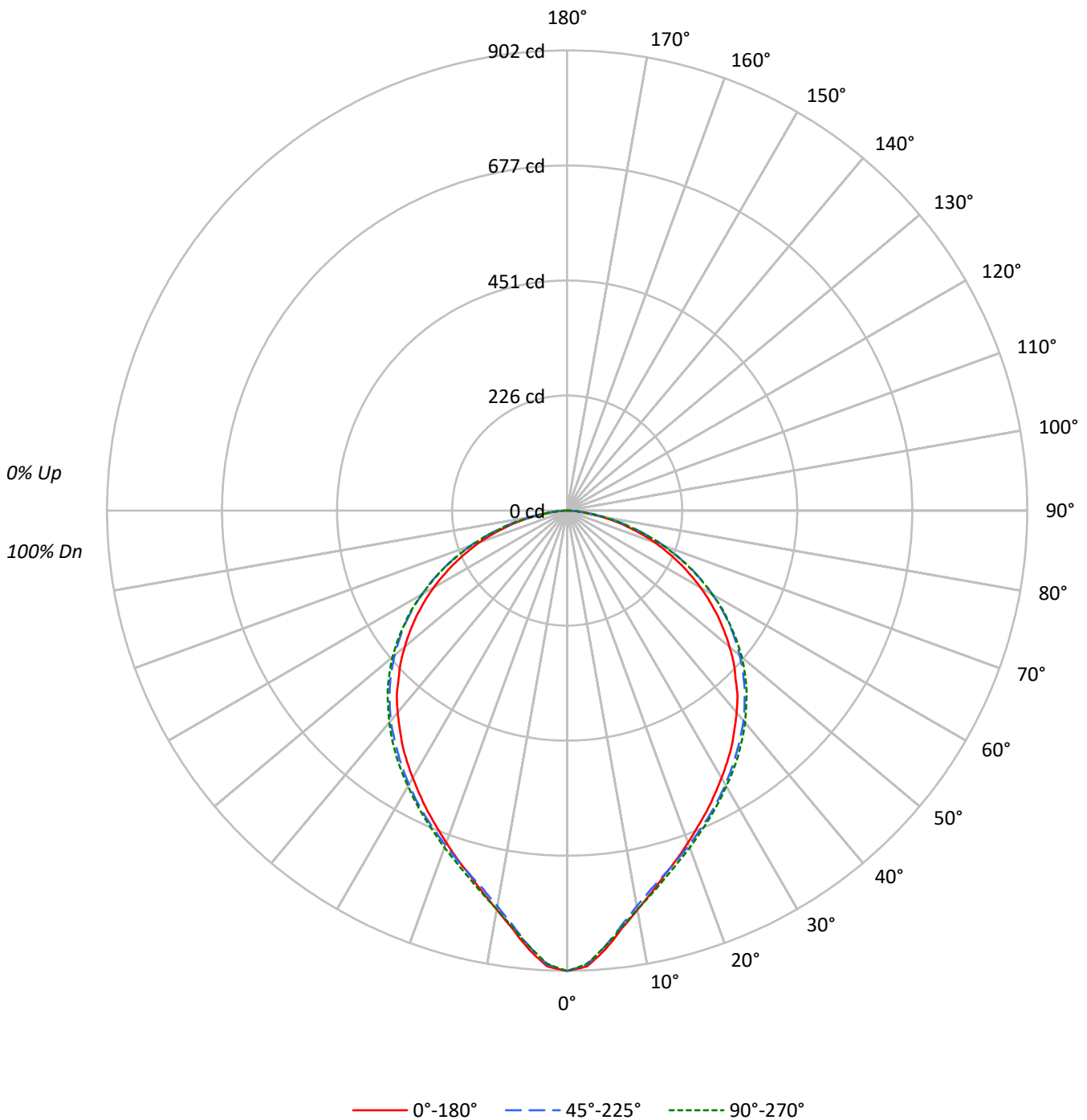
Lumens per Lamp: N/A  
Luminaire Lumens: 2096.1 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2428	2428	2428
5°	2332	2315	2315
10°	2170	2150	2167
15°	2059	2055	2076
20°	1984	1998	2013
25°	1927	1958	1970
30°	1881	1927	1939
35°	1848	1902	1921
40°	1815	1889	1905
45°	1778	1871	1893
50°	1739	1847	1872
55°	1690	1821	1828
60°	1630	1771	1767
65°	1545	1703	1691
70°	1442	1588	1568
75°	1273	1407	1392
80°	1034	1147	1089
85°	716	732	704



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	3.8
10°-20°	208.9	10.0
20°-30°	303.7	14.5
30°-40°	361.4	17.2
40°-50°	375.3	17.9
50°-60°	340.0	16.2
60°-70°	256.5	12.2
70°-80°	139.8	6.7
80°-90°	30.7	1.5
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°	592.3	28.3
0°-40°	953.8	45.5
0°-60°	1669.1	79.6
0°-90°	2096.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	863	861	857	857	857	80
15°	739	737	738	743	745	209
25°	649	654	660	665	663	299
35°	563	569	579	588	585	352
45°	467	476	492	497	497	361
55°	360	369	388	391	390	322
65°	243	250	267	267	266	240
75°	122	127	135	136	134	130
85°	23	23	24	23	23	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	902.4	902.4	902.4	902.4	902.4
2.5°	894.5	893.6	890.7	889.5	889.3
5°	863.2	861.1	857.1	856.6	857.1
7.5°	825.7	823.5	819.4	821.0	823.0
10°	794.2	788.5	786.9	789.2	793.0
12.5°	766.0	761.5	760.1	766.0	768.7
15°	739.1	737.3	737.8	742.8	745.0
17.5°	715.9	714.8	717.7	721.6	722.7
20°	692.7	695.0	697.7	701.7	703.1
22.5°	669.9	674.2	678.7	684.1	682.3
25°	649.0	654.4	659.6	665.0	663.4
27.5°	626.6	632.9	640.2	646.0	643.8
30°	605.2	613.1	620.1	627.3	623.9
32.5°	584.0	591.5	599.8	608.6	604.8
35°	562.6	569.4	579.1	587.9	584.9
37.5°	538.9	547.3	558.3	566.0	564.0
40°	516.8	524.5	537.8	542.8	542.3
42.5°	494.5	500.8	514.8	520.4	519.5
45°	467.2	475.6	491.6	497.0	497.4
47.5°	443.1	450.1	467.2	471.5	472.4
50°	415.4	424.1	441.3	446.5	447.1
52.5°	388.1	397.5	415.1	418.7	419.4
55°	360.3	368.9	388.1	390.8	389.6
57.5°	331.2	341.6	359.2	360.6	361.7
60°	302.8	311.8	329.0	330.8	328.3
62.5°	271.9	281.2	298.8	299.2	297.2
65°	242.6	249.6	267.4	267.0	265.6
67.5°	211.9	220.5	233.6	234.0	232.9
70°	183.3	189.2	201.8	202.0	199.3
72.5°	152.4	158.7	168.9	167.5	166.9
75°	122.4	127.4	135.3	136.2	133.9
77.5°	94.9	98.5	104.4	103.7	101.2
80°	66.7	69.7	74.0	73.1	70.3
82.5°	42.6	44.4	47.1	46.0	44.9
85°	23.2	23.4	23.7	23.4	22.8
87.5°	8.6	8.8	8.8	8.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)