

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: P488843

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-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: P488843  
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-LD4-3STD-20-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

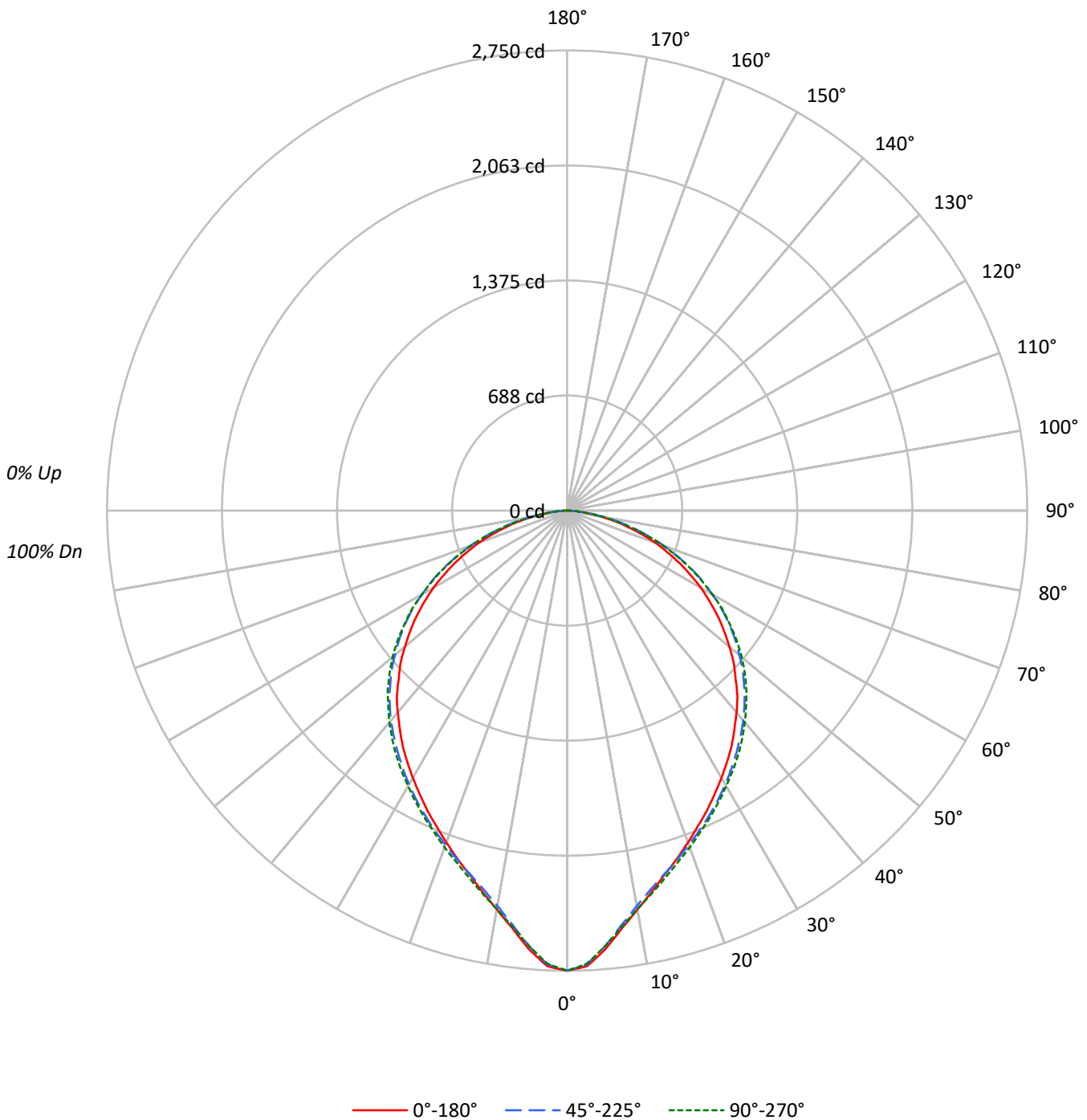
Lumens per Lamp: N/A  
Luminaire Lumens: 6386.7 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 99.9  
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	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									100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84									84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70									70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59									59																			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51									51																			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44									44																			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38									38																			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34									34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30									30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27									27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25									25																			

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

	0°	45°	90°
0°	7399	7399	7399
5°	7104	7054	7054
10°	6612	6552	6603
15°	6274	6263	6324
20°	6044	6087	6135
25°	5871	5967	6002
30°	5730	5871	5907
35°	5631	5796	5855
40°	5532	5756	5804
45°	5418	5700	5768
50°	5298	5629	5704
55°	5151	5547	5570
60°	4966	5395	5384
65°	4707	5188	5153
70°	4394	4838	4779
75°	3879	4287	4243
80°	3152	3493	3321
85°	2186	2226	2143



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	3.8
10°-20°	636.4	10.0
20°-30°	925.4	14.5
30°-40°	1101.3	17.2
40°-50°	1143.5	17.9
50°-60°	1035.9	16.2
60°-70°	781.7	12.2
70°-80°	425.9	6.7
80°-90°	93.6	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°	1804.8	28.3
0°-40°	2906.1	45.5
0°-60°	5085.5	79.6
0°-90°	6386.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6386.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2750	2750	2750	2750	2750	
5°	2630	2624	2612	2610	2612	244
15°	2252	2247	2248	2263	2270	636
25°	1977	1994	2010	2026	2021	911
35°	1714	1735	1764	1791	1782	1072
45°	1424	1449	1498	1514	1516	1100
55°	1098	1124	1182	1191	1187	980
65°	739	761	815	814	809	731
75°	373	388	412	415	408	397
85°	71	71	72	71	69	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2749.6	2749.6	2749.6	2749.6	2749.6
2.5°	2725.5	2722.8	2713.8	2710.4	2709.7
5°	2630.0	2623.8	2611.5	2610.1	2611.5
7.5°	2516.0	2509.1	2496.8	2501.5	2507.7
10°	2419.8	2402.6	2397.8	2404.7	2416.3
12.5°	2333.9	2320.2	2316.0	2333.9	2342.2
15°	2252.1	2246.6	2248.0	2263.2	2270.0
17.5°	2181.4	2177.9	2186.9	2198.6	2202.0
20°	2110.6	2117.5	2125.7	2138.1	2142.2
22.5°	2041.2	2054.3	2068.0	2084.5	2079.0
25°	1977.3	1993.8	2009.6	2026.1	2021.3
27.5°	1909.3	1928.5	1950.5	1968.4	1961.5
30°	1844.0	1868.1	1889.4	1911.3	1901.1
32.5°	1779.5	1802.1	1827.5	1854.3	1842.7
35°	1714.2	1734.8	1764.4	1791.2	1782.2
37.5°	1642.1	1667.5	1701.1	1724.5	1718.3
40°	1574.7	1598.1	1638.6	1653.7	1652.3
42.5°	1506.7	1526.0	1568.5	1585.7	1583.0
45°	1423.6	1449.0	1497.8	1514.3	1515.6
47.5°	1350.1	1371.4	1423.6	1436.6	1439.4
50°	1265.5	1292.4	1344.6	1360.3	1362.4
52.5°	1182.4	1211.2	1264.8	1275.8	1277.9
55°	1097.9	1124.0	1182.4	1190.7	1187.2
57.5°	1009.3	1040.9	1094.5	1098.6	1102.0
60°	922.7	950.2	1002.4	1007.9	1000.4
62.5°	828.6	856.7	910.4	911.7	905.5
65°	739.2	760.6	814.8	813.5	809.3
67.5°	645.8	671.9	711.8	713.1	709.7
70°	558.5	576.4	614.9	615.6	607.4
72.5°	464.5	483.7	514.6	510.5	508.4
75°	373.1	388.2	412.3	415.0	408.1
77.5°	289.3	300.2	318.1	316.1	308.5
80°	203.4	212.3	225.4	222.6	214.3
82.5°	129.8	135.4	143.6	140.2	136.7
85°	70.8	71.4	72.1	71.4	69.4
87.5°	26.1	26.8	26.8	26.1	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)