

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: P488835

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-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: P488835  
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-LD4-3LO-30-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

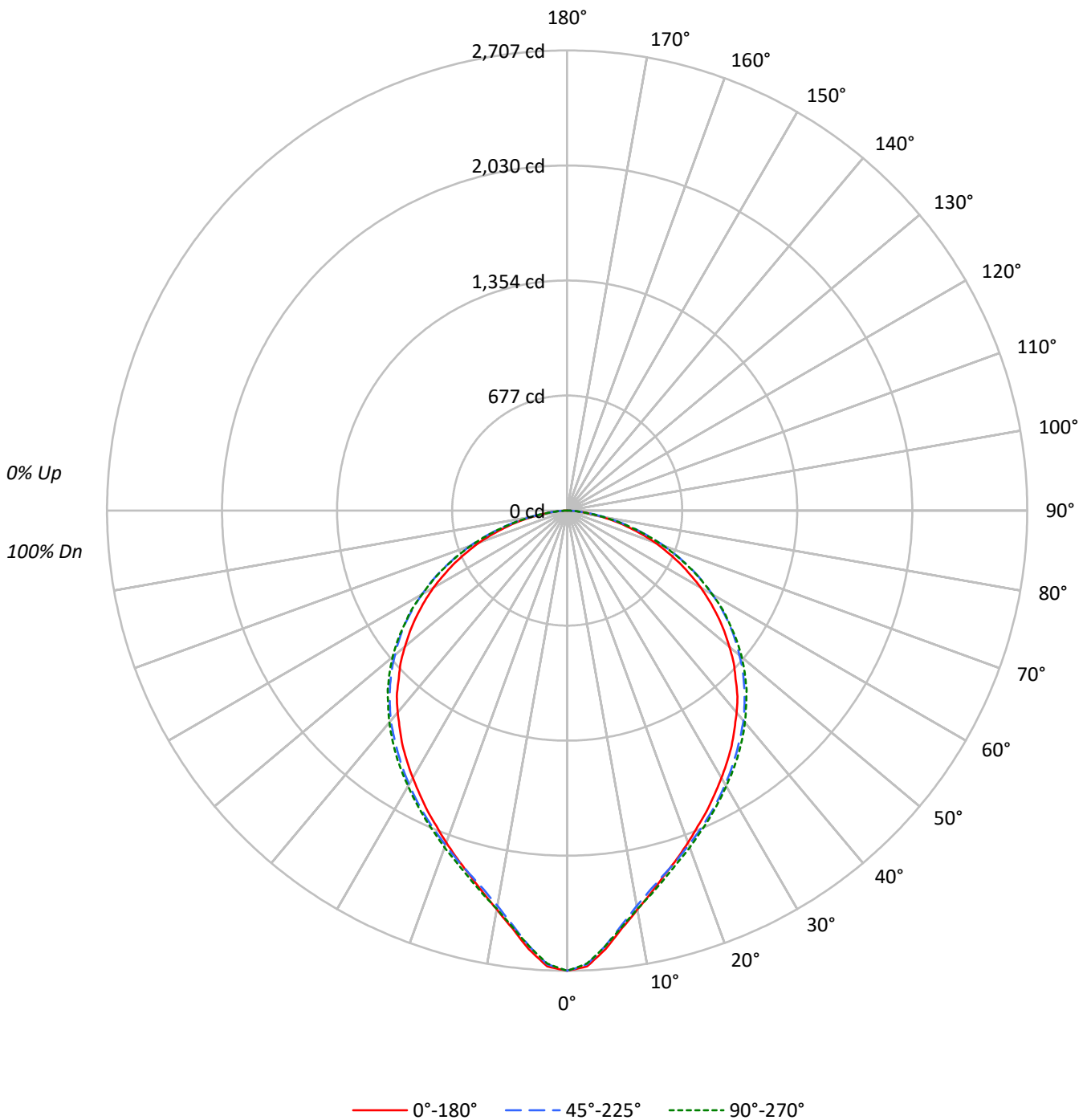
Lumens per Lamp: N/A  
Luminaire Lumens: 6288.1 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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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CATALOG NUMBER: CLM-12-4-INS-P12125-LD4-3LO-30-120-EDD

### 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	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°	7285	7285	7285
5°	6995	6945	6945
10°	6510	6451	6501
15°	6177	6166	6227
20°	5951	5994	6040
25°	5780	5875	5909
30°	5642	5780	5816
35°	5544	5707	5764
40°	5446	5667	5715
45°	5334	5612	5679
50°	5216	5542	5616
55°	5071	5462	5484
60°	4889	5311	5301
65°	4634	5108	5074
70°	4327	4763	4705
75°	3819	4220	4178
80°	3102	3439	3270
85°	2152	2192	2109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.2	3.8
10°-20°	626.6	10.0
20°-30°	911.2	14.5
30°-40°	1084.3	17.2
40°-50°	1125.8	17.9
50°-60°	1020.0	16.2
60°-70°	769.6	12.2
70°-80°	419.3	6.7
80°-90°	92.1	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°	1777.0	28.3
0°-40°	2861.2	45.5
0°-60°	5007.0	79.6
0°-90°	6288.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6288.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2707	2707	2707	2707	2707	
5°	2590	2583	2571	2570	2571	240
15°	2217	2212	2213	2228	2235	626
25°	1947	1963	1979	1995	1990	897
35°	1688	1708	1737	1764	1755	1055
45°	1402	1427	1475	1491	1492	1083
55°	1081	1107	1164	1172	1169	965
65°	728	749	802	801	797	720
75°	367	382	406	409	402	391
85°	70	70	71	70	68	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2707.2	2707.2	2707.2	2707.2	2707.2
2.5°	2683.5	2680.8	2672.0	2668.6	2667.9
5°	2589.5	2583.4	2571.2	2569.9	2571.2
7.5°	2477.2	2470.4	2458.3	2463.0	2469.1
10°	2382.5	2365.6	2360.8	2367.6	2379.1
12.5°	2297.9	2284.4	2280.3	2297.9	2306.0
15°	2217.4	2212.0	2213.4	2228.3	2235.0
17.5°	2147.8	2144.4	2153.2	2164.7	2168.0
20°	2078.1	2084.8	2093.0	2105.1	2109.2
22.5°	2009.7	2022.6	2036.1	2052.4	2047.0
25°	1946.8	1963.1	1978.6	1994.9	1990.1
27.5°	1879.9	1898.8	1920.5	1938.0	1931.3
30°	1815.6	1839.3	1860.2	1881.9	1871.7
32.5°	1752.0	1774.3	1799.4	1825.7	1814.2
35°	1687.7	1708.0	1737.1	1763.5	1754.7
37.5°	1616.7	1641.7	1674.9	1697.9	1691.8
40°	1550.4	1573.4	1613.3	1628.2	1626.9
42.5°	1483.4	1502.4	1544.3	1561.2	1558.5
45°	1401.6	1426.6	1474.7	1490.9	1492.2
47.5°	1329.2	1350.2	1401.6	1414.4	1417.2
50°	1246.0	1272.4	1323.8	1339.4	1341.4
52.5°	1164.2	1192.6	1245.3	1256.2	1258.2
55°	1080.9	1106.7	1164.2	1172.3	1168.9
57.5°	993.7	1024.8	1077.6	1081.6	1085.0
60°	908.4	935.5	986.9	992.3	984.9
62.5°	815.8	843.5	896.3	897.6	891.5
65°	727.8	748.8	802.2	800.9	796.8
67.5°	635.8	661.5	700.8	702.1	698.8
70°	549.9	567.5	605.4	606.1	598.0
72.5°	457.3	476.2	506.6	502.6	500.6
75°	367.3	382.2	405.9	408.6	401.8
77.5°	284.8	295.6	313.2	311.2	303.7
80°	200.2	209.0	221.9	219.2	211.0
82.5°	127.8	133.3	141.4	138.0	134.6
85°	69.7	70.3	71.0	70.3	68.3
87.5°	25.7	26.4	26.4	25.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)