

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: P488834

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3LO-30-120-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: P488834  
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-90  
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

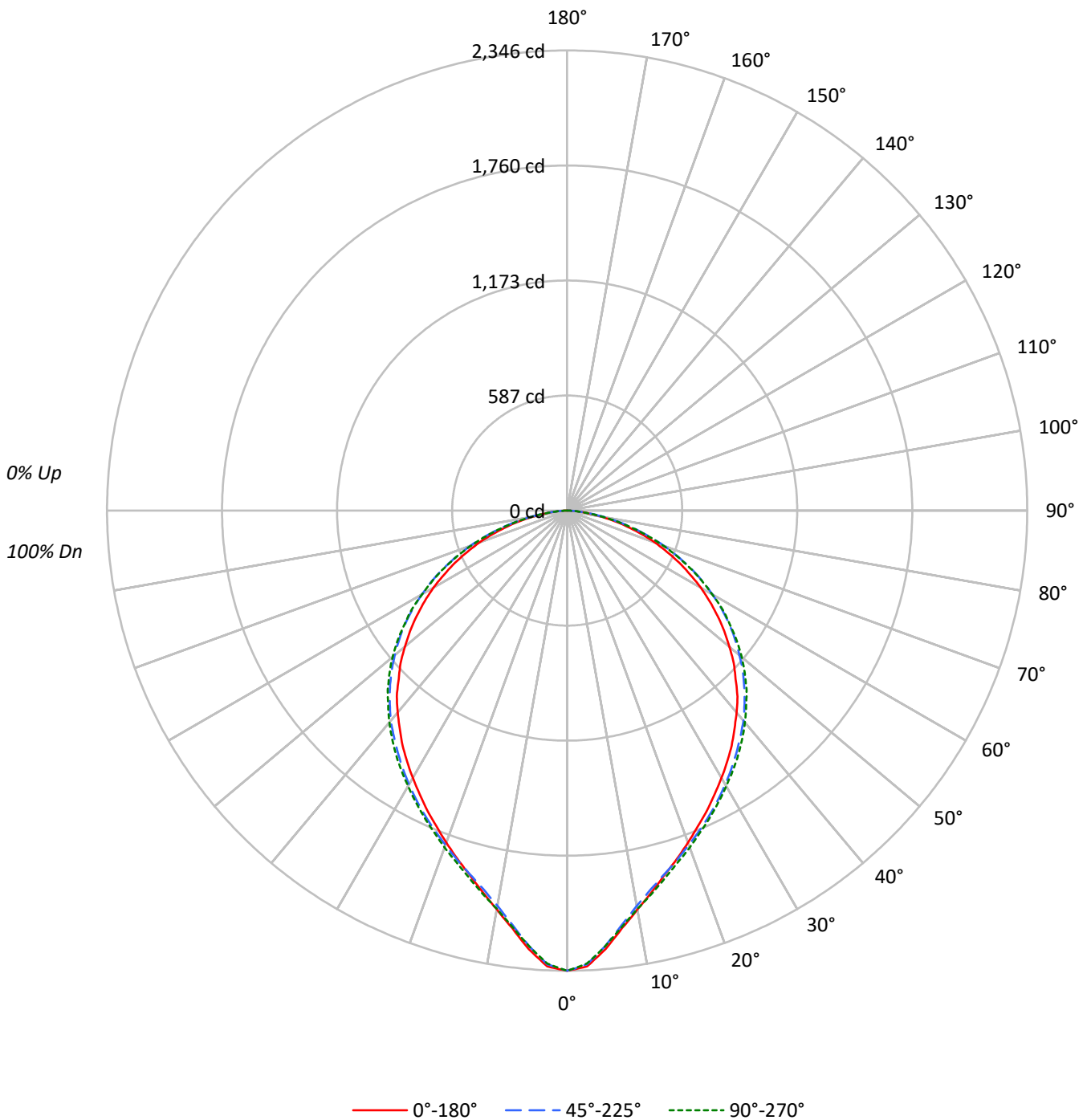
Lumens per Lamp: N/A  
Luminaire Lumens: 5449.7 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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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### 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°	6314	6314	6314
5°	6062	6019	6019
10°	5642	5591	5634
15°	5354	5344	5396
20°	5157	5194	5235
25°	5010	5092	5121
30°	4889	5010	5041
35°	4805	4946	4996
40°	4720	4912	4953
45°	4623	4864	4922
50°	4521	4803	4867
55°	4395	4733	4753
60°	4237	4603	4594
65°	4017	4427	4397
70°	3750	4128	4078
75°	3309	3658	3620
80°	2689	2980	2834
85°	1865	1899	1828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.3	3.8
10°-20°	543.0	10.0
20°-30°	789.7	14.5
30°-40°	939.7	17.2
40°-50°	975.7	17.9
50°-60°	883.9	16.2
60°-70°	667.0	12.2
70°-80°	363.4	6.7
80°-90°	79.9	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°	1540.0	28.3
0°-40°	2479.7	45.5
0°-60°	4339.4	79.6
0°-90°	5449.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5449.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2244	2239	2228	2227	2228	208
15°	1922	1917	1918	1931	1937	542
25°	1687	1701	1715	1729	1725	777
35°	1463	1480	1506	1528	1521	914
45°	1215	1236	1278	1292	1293	939
55°	937	959	1009	1016	1013	836
65°	631	649	695	694	691	624
75°	318	331	352	354	348	339
85°	60	61	62	61	59	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2346.2	2346.2	2346.2	2346.2	2346.2
2.5°	2325.7	2323.3	2315.7	2312.7	2312.1
5°	2244.2	2238.9	2228.3	2227.2	2228.3
7.5°	2146.9	2141.0	2130.5	2134.5	2139.8
10°	2064.8	2050.1	2046.0	2051.9	2061.8
12.5°	1991.5	1979.8	1976.2	1991.5	1998.5
15°	1921.7	1917.0	1918.2	1931.1	1937.0
17.5°	1861.4	1858.4	1866.0	1876.0	1878.9
20°	1801.0	1806.8	1813.9	1824.4	1827.9
22.5°	1741.8	1752.9	1764.6	1778.7	1774.0
25°	1687.2	1701.3	1714.8	1728.9	1724.8
27.5°	1629.2	1645.6	1664.4	1679.6	1673.7
30°	1573.5	1594.0	1612.2	1630.9	1622.2
32.5°	1518.4	1537.7	1559.4	1582.3	1572.3
35°	1462.7	1480.3	1505.5	1528.4	1520.8
37.5°	1401.2	1422.8	1451.5	1471.5	1466.2
40°	1343.7	1363.6	1398.2	1411.1	1409.9
42.5°	1285.6	1302.1	1338.4	1353.1	1350.7
45°	1214.7	1236.4	1278.0	1292.1	1293.3
47.5°	1152.0	1170.2	1214.7	1225.8	1228.2
50°	1079.9	1102.8	1147.3	1160.8	1162.6
52.5°	1008.9	1033.5	1079.3	1088.6	1090.4
55°	936.8	959.1	1008.9	1016.0	1013.1
57.5°	861.2	888.2	933.9	937.4	940.3
60°	787.3	810.8	855.3	860.0	853.6
62.5°	707.0	731.0	776.8	777.9	772.7
65°	630.8	649.0	695.3	694.1	690.6
67.5°	551.1	573.3	607.4	608.5	605.6
70°	476.6	491.9	524.7	525.3	518.3
72.5°	396.3	412.7	439.1	435.6	433.8
75°	318.3	331.2	351.8	354.1	348.2
77.5°	246.8	256.2	271.4	269.7	263.2
80°	173.5	181.1	192.3	190.0	182.9
82.5°	110.8	115.5	122.5	119.6	116.7
85°	60.4	60.9	61.5	60.9	59.2
87.5°	22.3	22.9	22.9	22.3	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)