

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: P488600

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-50-120-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: P488600  
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-LD4-2STD-50-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

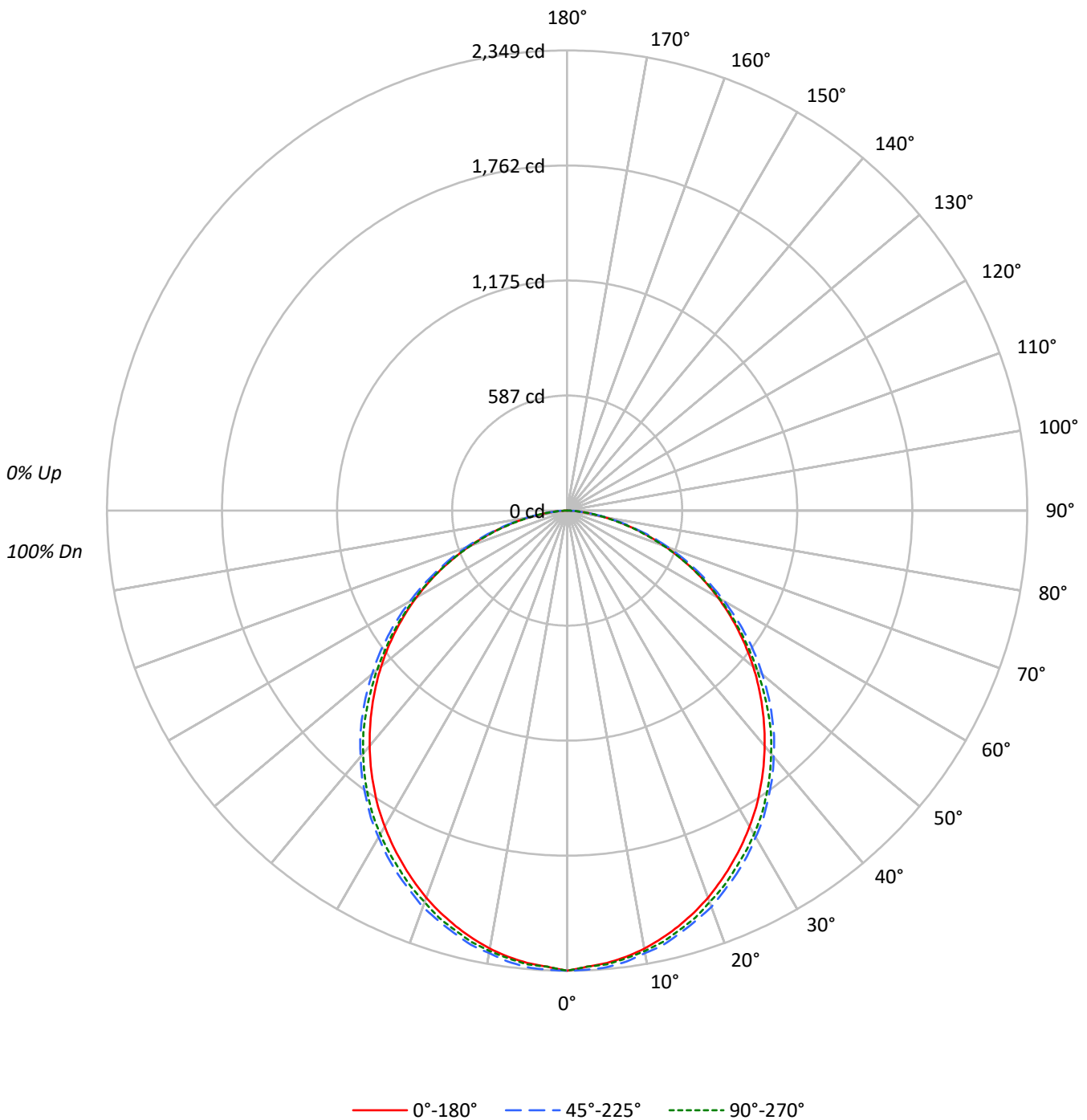
Lumens per Lamp: N/A  
Luminaire Lumens: 6175.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 66.6  
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°	6321	6321	6321
5°	6262	6321	6282
10°	6205	6268	6238
15°	6119	6218	6174
20°	6023	6166	6092
25°	5905	6077	6007
30°	5786	5982	5928
35°	5656	5880	5825
40°	5509	5762	5689
45°	5355	5624	5518
50°	5193	5444	5302
55°	5005	5239	5079
60°	4792	4991	4837
65°	4516	4689	4519
70°	4155	4323	4109
75°	3659	3824	3603
80°	2974	3102	2940
85°	2072	2208	2152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.2	3.6
10°-20°	626.9	10.2
20°-30°	935.0	15.1
30°-40°	1108.0	17.9
40°-50°	1121.1	18.2
50°-60°	979.1	15.9
60°-70°	715.5	11.6
70°-80°	380.7	6.2
80°-90°	88.0	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°	1783.1	28.9
0°-40°	2891.1	46.8
0°-60°	4991.3	80.8
0°-90°	6175.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6175.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2349	2349	2349	2349	2349	
5°	2318	2323	2340	2346	2326	220
15°	2196	2211	2232	2245	2216	619
25°	1989	2013	2047	2054	2023	916
35°	1722	1749	1790	1802	1773	1077
45°	1407	1432	1478	1479	1450	1085
55°	1067	1088	1117	1101	1082	954
65°	709	724	736	722	710	702
75°	352	360	368	354	346	374
85°	67	68	72	72	70	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2348.9	2348.9	2348.9	2348.9	2348.9
2.5°	2330.6	2338.2	2346.0	2349.4	2330.3
5°	2318.3	2322.8	2340.1	2345.5	2325.7
7.5°	2298.3	2304.9	2321.8	2324.2	2305.1
10°	2270.9	2282.6	2293.9	2306.1	2282.9
12.5°	2235.9	2251.8	2270.9	2273.1	2255.5
15°	2196.5	2211.2	2232.0	2245.4	2216.3
17.5°	2152.4	2166.6	2193.5	2196.0	2178.4
20°	2103.2	2120.8	2153.2	2158.8	2127.2
22.5°	2047.4	2071.2	2098.1	2103.5	2080.2
25°	1988.9	2013.4	2046.7	2054.3	2023.2
27.5°	1927.8	1951.3	1988.7	1994.1	1967.9
30°	1862.2	1884.2	1925.3	1934.4	1907.7
32.5°	1795.6	1817.6	1863.1	1870.7	1844.8
35°	1721.7	1748.6	1790.0	1802.5	1773.3
37.5°	1646.3	1672.5	1719.5	1730.7	1699.4
40°	1568.2	1594.2	1640.4	1649.7	1619.6
42.5°	1488.5	1514.4	1563.8	1565.3	1540.3
45°	1407.0	1431.9	1477.9	1479.2	1450.0
47.5°	1324.2	1349.5	1390.6	1385.9	1358.5
50°	1240.5	1264.5	1300.5	1291.2	1266.5
52.5°	1153.9	1177.2	1211.2	1196.0	1172.8
55°	1066.8	1088.3	1116.7	1100.6	1082.5
57.5°	978.9	1000.7	1022.5	1006.1	990.4
60°	890.3	909.4	927.3	910.6	898.7
62.5°	800.3	816.7	832.1	816.2	804.9
65°	709.2	723.7	736.4	721.7	709.7
67.5°	618.7	630.9	642.7	627.5	615.0
70°	528.1	538.7	549.4	533.8	522.3
72.5°	438.8	448.1	457.6	442.5	432.4
75°	351.9	360.0	367.8	354.4	346.5
77.5°	269.0	275.8	281.2	272.6	265.0
80°	191.9	197.0	200.2	196.8	189.7
82.5°	123.3	127.0	128.7	128.5	123.8
85°	67.1	68.3	71.5	72.2	69.7
87.5°	25.9	27.7	28.4	30.6	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)