

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: P488536

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-35-120-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: P488536  
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-LD4-1HI-35-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

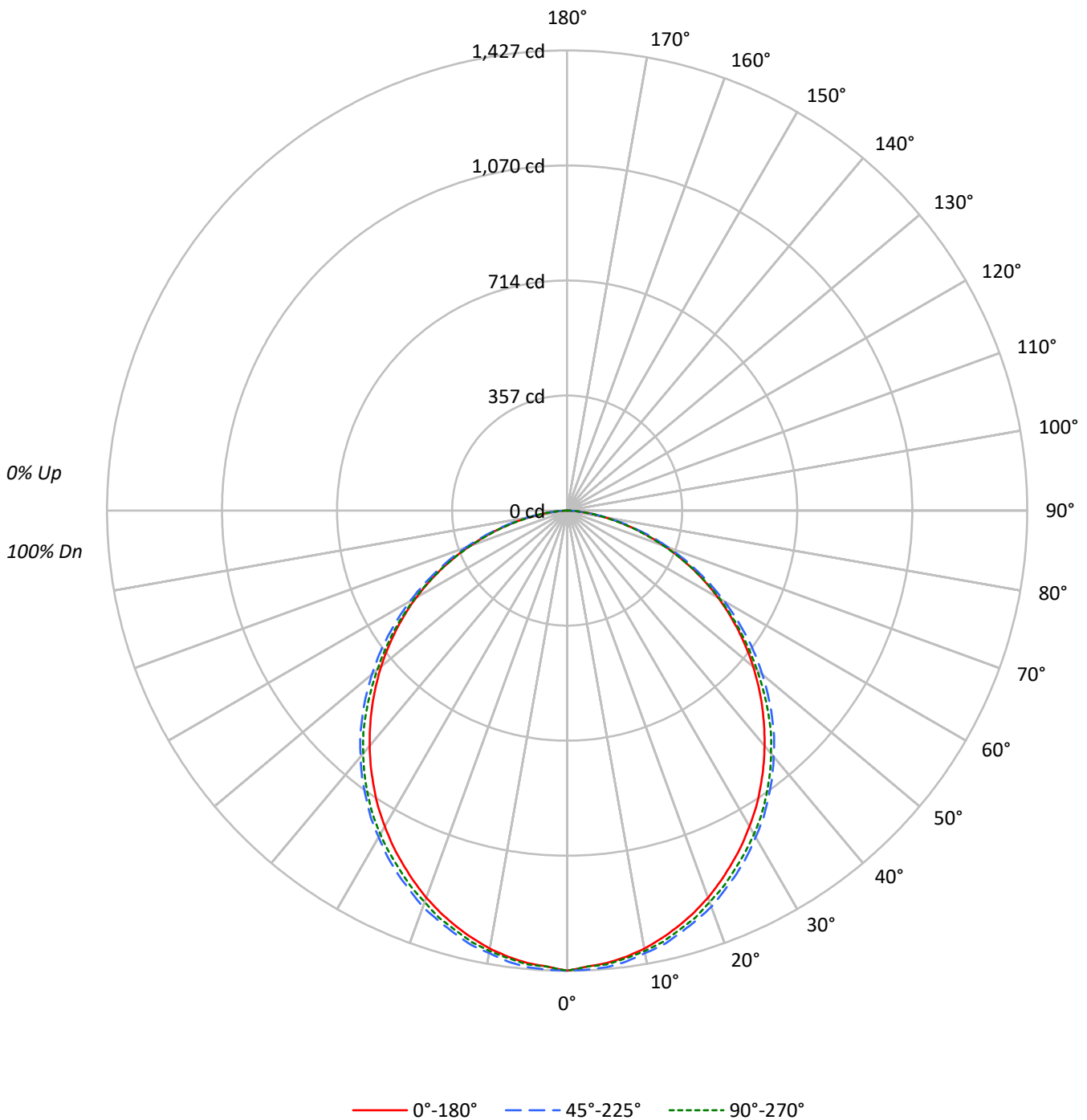
Lumens per Lamp: N/A  
Luminaire Lumens: 3750.9 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3839	3839	3839
5°	3804	3840	3816
10°	3769	3807	3789
15°	3717	3777	3750
20°	3658	3745	3700
25°	3587	3691	3649
30°	3515	3634	3600
35°	3435	3572	3538
40°	3346	3500	3456
45°	3252	3416	3352
50°	3154	3307	3220
55°	3040	3182	3085
60°	2911	3031	2937
65°	2743	2848	2745
70°	2524	2626	2496
75°	2223	2323	2189
80°	1805	1884	1785
85°	1257	1340	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.4	3.6
10°-20°	380.8	10.2
20°-30°	567.9	15.1
30°-40°	673.0	17.9
40°-50°	680.9	18.2
50°-60°	594.7	15.9
60°-70°	434.6	11.6
70°-80°	231.2	6.2
80°-90°	53.4	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°	1083.0	28.9
0°-40°	1756.0	46.8
0°-60°	3031.6	80.8
0°-90°	3750.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3750.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1408	1411	1421	1425	1413	134
15°	1334	1343	1356	1364	1346	376
25°	1208	1223	1243	1248	1229	557
35°	1046	1062	1087	1095	1077	654
45°	855	870	898	898	881	659
55°	648	661	678	668	658	579
65°	431	440	447	438	431	426
75°	214	219	223	215	210	227
85°	41	42	43	44	42	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1426.7	1426.7	1426.7	1426.7	1426.7
2.5°	1415.6	1420.2	1424.9	1427.0	1415.4
5°	1408.1	1410.8	1421.4	1424.6	1412.6
7.5°	1395.9	1400.0	1410.2	1411.7	1400.1
10°	1379.3	1386.4	1393.3	1400.7	1386.6
12.5°	1358.0	1367.7	1379.3	1380.6	1369.9
15°	1334.1	1343.0	1355.7	1363.8	1346.1
17.5°	1307.3	1316.0	1332.3	1333.8	1323.1
20°	1277.5	1288.2	1307.8	1311.2	1292.0
22.5°	1243.6	1258.0	1274.3	1277.6	1263.5
25°	1208.0	1222.9	1243.1	1247.7	1228.9
27.5°	1170.9	1185.2	1207.9	1211.2	1195.3
30°	1131.1	1144.4	1169.4	1174.9	1158.7
32.5°	1090.6	1104.0	1131.6	1136.3	1120.5
35°	1045.7	1062.1	1087.2	1094.8	1077.1
37.5°	999.9	1015.9	1044.4	1051.2	1032.2
40°	952.5	968.3	996.4	1002.0	983.7
42.5°	904.1	919.8	949.9	950.7	935.6
45°	854.6	869.7	897.7	898.4	880.7
47.5°	804.3	819.6	844.6	841.8	825.1
50°	753.5	768.1	789.9	784.3	769.2
52.5°	700.9	715.0	735.7	726.4	712.3
55°	647.9	661.0	678.3	668.5	657.5
57.5°	594.6	607.8	621.0	611.1	601.6
60°	540.8	552.4	563.2	553.1	545.8
62.5°	486.1	496.0	505.4	495.7	488.9
65°	430.8	439.5	447.3	438.4	431.1
67.5°	375.8	383.2	390.3	381.1	373.5
70°	320.8	327.2	333.7	324.2	317.2
72.5°	266.5	272.2	278.0	268.8	262.7
75°	213.8	218.7	223.4	215.2	210.5
77.5°	163.4	167.5	170.8	165.6	161.0
80°	116.5	119.7	121.6	119.5	115.2
82.5°	74.9	77.1	78.2	78.0	75.2
85°	40.7	41.5	43.4	43.9	42.4
87.5°	15.8	16.8	17.2	18.6	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)