

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: P488354

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-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: P488354  
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-12-2-INS-A12125-LD4-2HI-30-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

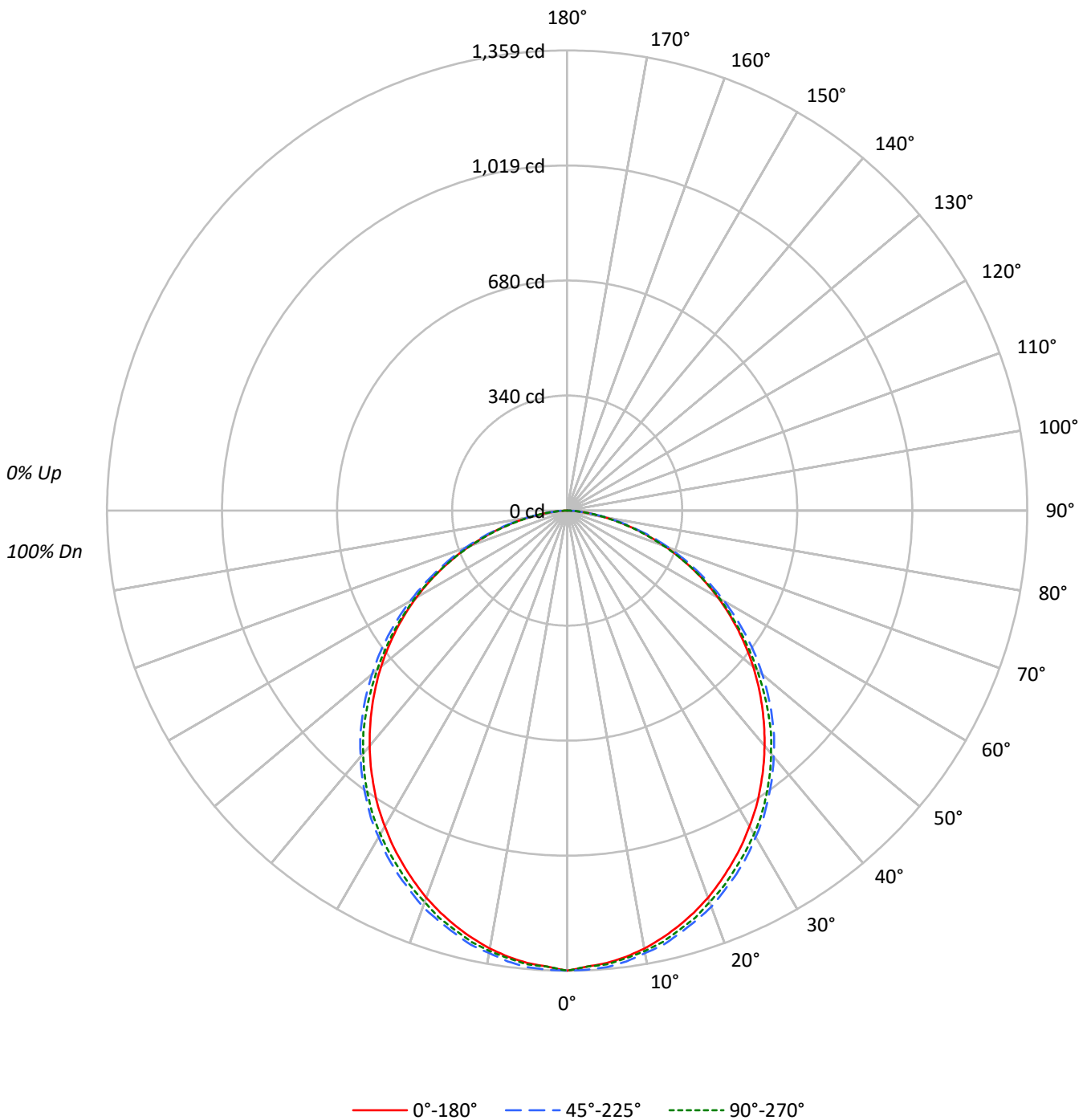
Lumens per Lamp: N/A  
Luminaire Lumens: 3572.1 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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	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°	7312	7312	7312
5°	7245	7313	7268
10°	7178	7251	7217
15°	7079	7193	7143
20°	6968	7133	7047
25°	6832	7030	6950
30°	6694	6921	6858
35°	6543	6803	6739
40°	6373	6667	6582
45°	6194	6507	6384
50°	6008	6299	6134
55°	5790	6061	5875
60°	5543	5774	5595
65°	5224	5425	5228
70°	4807	5001	4754
75°	4234	4425	4167
80°	3440	3589	3400
85°	2396	2550	2489



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.0	3.6
10°-20°	362.6	10.2
20°-30°	540.8	15.1
30°-40°	640.9	17.9
40°-50°	648.5	18.2
50°-60°	566.3	15.9
60°-70°	413.9	11.6
70°-80°	220.2	6.2
80°-90°	50.9	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°	1031.4	28.9
0°-40°	1672.3	46.8
0°-60°	2887.1	80.8
0°-90°	3572.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1341	1344	1354	1357	1345	127
15°	1270	1279	1291	1299	1282	358
25°	1150	1165	1184	1188	1170	530
35°	996	1012	1035	1043	1026	623
45°	814	828	855	856	839	628
55°	617	630	646	637	626	552
65°	410	419	426	418	410	406
75°	204	208	213	205	200	216
85°	39	40	41	42	40	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1358.7	1358.7	1358.7	1358.7	1358.7
2.5°	1348.1	1352.5	1357.0	1359.0	1347.9
5°	1341.0	1343.6	1353.6	1356.7	1345.3
7.5°	1329.4	1333.2	1343.0	1344.4	1333.4
10°	1313.5	1320.3	1326.8	1333.9	1320.5
12.5°	1293.3	1302.5	1313.5	1314.8	1304.6
15°	1270.5	1279.0	1291.0	1298.8	1282.0
17.5°	1245.0	1253.2	1268.8	1270.2	1260.0
20°	1216.6	1226.8	1245.5	1248.7	1230.4
22.5°	1184.3	1198.0	1213.6	1216.7	1203.3
25°	1150.5	1164.6	1183.9	1188.3	1170.3
27.5°	1115.1	1128.7	1150.3	1153.4	1138.3
30°	1077.1	1089.9	1113.7	1118.9	1103.5
32.5°	1038.6	1051.4	1077.7	1082.1	1067.1
35°	995.9	1011.5	1035.4	1042.6	1025.7
37.5°	952.3	967.4	994.6	1001.1	983.0
40°	907.1	922.1	948.9	954.3	936.8
42.5°	861.0	876.0	904.6	905.4	891.0
45°	813.8	828.3	854.9	855.6	838.7
47.5°	766.0	780.6	804.3	801.7	785.8
50°	717.6	731.4	752.3	746.9	732.6
52.5°	667.5	680.9	700.6	691.8	678.4
55°	617.1	629.5	645.9	636.6	626.1
57.5°	566.2	578.8	591.4	582.0	572.9
60°	515.0	526.0	536.4	526.7	519.8
62.5°	462.9	472.4	481.3	472.1	465.6
65°	410.2	418.6	426.0	417.5	410.5
67.5°	357.9	364.9	371.7	363.0	355.7
70°	305.5	311.6	317.8	308.7	302.1
72.5°	253.8	259.2	264.7	255.9	250.1
75°	203.6	208.2	212.8	205.0	200.4
77.5°	155.6	159.5	162.7	157.7	153.3
80°	111.0	114.0	115.8	113.8	109.7
82.5°	71.3	73.5	74.5	74.3	71.6
85°	38.8	39.5	41.3	41.8	40.3
87.5°	15.0	16.0	16.4	17.7	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)