

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: P488383

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-40-120-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: P488383  
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-LD4-2STD-40-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

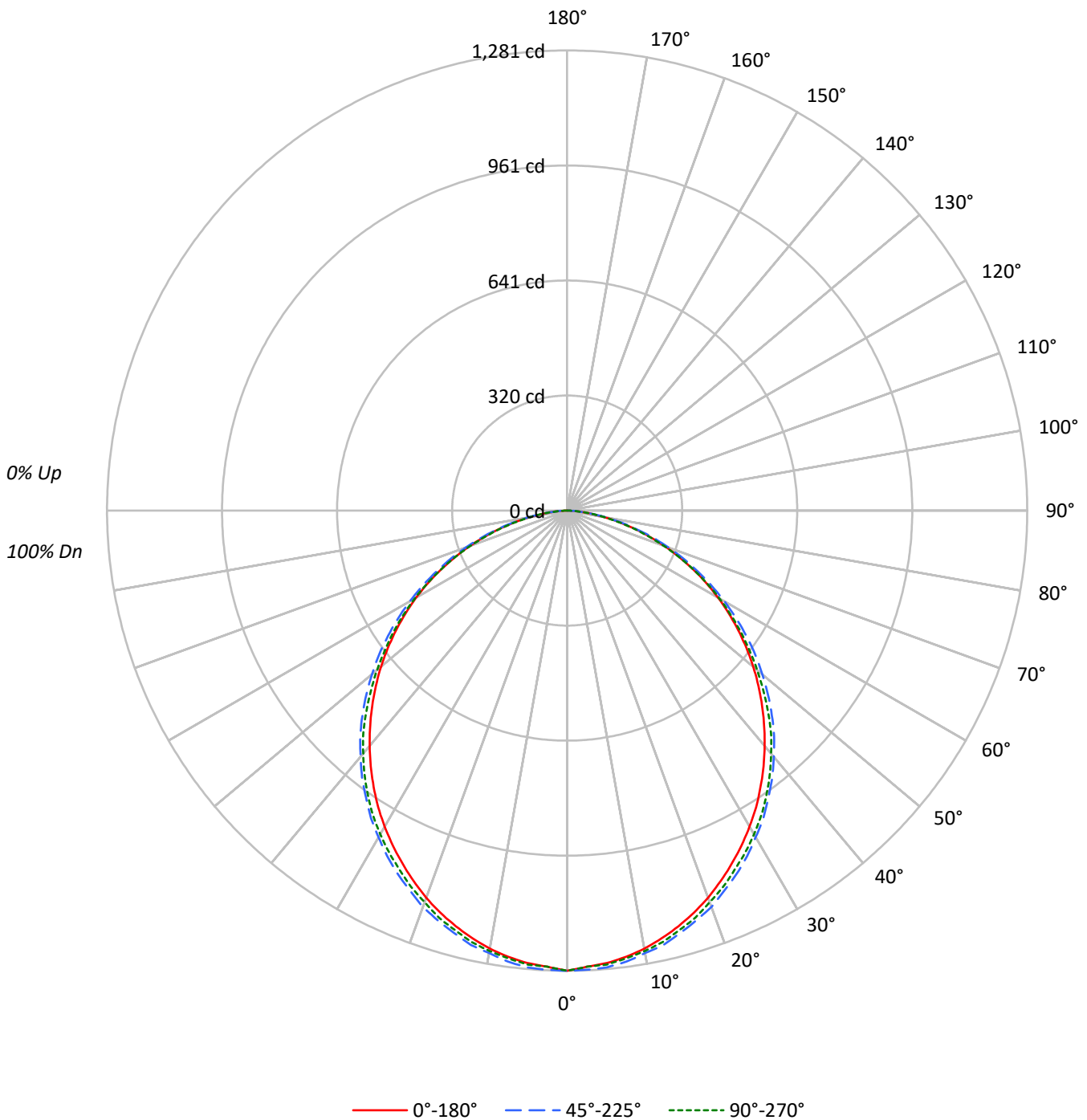
Lumens per Lamp: N/A  
Luminaire Lumens: 3368.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6895	6895	6895
5°	6831	6895	6853
10°	6768	6837	6804
15°	6674	6783	6735
20°	6570	6726	6644
25°	6441	6628	6552
30°	6311	6525	6466
35°	6169	6414	6354
40°	6009	6286	6206
45°	5840	6135	6019
50°	5665	5939	5783
55°	5459	5714	5539
60°	5227	5443	5275
65°	4926	5114	4930
70°	4532	4714	4482
75°	3990	4171	3930
80°	3242	3384	3205
85°	2260	2408	2347



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	3.6
10°-20°	341.9	10.2
20°-30°	509.9	15.1
30°-40°	604.3	17.9
40°-50°	611.4	18.2
50°-60°	534.0	15.9
60°-70°	390.2	11.6
70°-80°	207.6	6.2
80°-90°	48.0	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°	972.5	28.9
0°-40°	1576.7	46.8
0°-60°	2722.2	80.8
0°-90°	3368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1264	1267	1276	1279	1268	120
15°	1198	1206	1217	1225	1209	338
25°	1085	1098	1116	1120	1103	500
35°	939	954	976	983	967	587
45°	767	781	806	807	791	592
55°	582	594	609	600	590	520
65°	387	395	402	394	387	383
75°	192	196	201	193	189	204
85°	37	37	39	39	38	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1281.1	1281.1	1281.1	1281.1	1281.1
2.5°	1271.1	1275.2	1279.5	1281.3	1270.9
5°	1264.4	1266.8	1276.3	1279.2	1268.4
7.5°	1253.4	1257.0	1266.3	1267.6	1257.2
10°	1238.5	1244.9	1251.0	1257.7	1245.0
12.5°	1219.4	1228.1	1238.5	1239.7	1230.1
15°	1197.9	1205.9	1217.3	1224.6	1208.7
17.5°	1173.9	1181.6	1196.3	1197.6	1188.0
20°	1147.1	1156.7	1174.3	1177.4	1160.1
22.5°	1116.6	1129.6	1144.3	1147.2	1134.5
25°	1084.7	1098.1	1116.2	1120.4	1103.4
27.5°	1051.4	1064.2	1084.6	1087.5	1073.3
30°	1015.6	1027.6	1050.0	1055.0	1040.4
32.5°	979.3	991.3	1016.1	1020.3	1006.1
35°	939.0	953.7	976.2	983.0	967.1
37.5°	897.9	912.1	937.8	943.9	926.8
40°	855.3	869.4	894.7	899.7	883.3
42.5°	811.8	825.9	852.9	853.7	840.1
45°	767.3	780.9	806.0	806.7	790.8
47.5°	722.2	736.0	758.4	755.9	740.9
50°	676.6	689.7	709.3	704.2	690.7
52.5°	629.3	642.0	660.6	652.3	639.6
55°	581.8	593.6	609.0	600.2	590.3
57.5°	533.9	545.8	557.6	548.7	540.2
60°	485.6	496.0	505.7	496.7	490.1
62.5°	436.5	445.4	453.8	445.1	439.0
65°	386.8	394.7	401.6	393.6	387.1
67.5°	337.4	344.1	350.5	342.2	335.4
70°	288.0	293.8	299.6	291.1	284.8
72.5°	239.3	244.4	249.6	241.3	235.8
75°	191.9	196.3	200.6	193.3	189.0
77.5°	146.7	150.4	153.4	148.7	144.6
80°	104.6	107.4	109.2	107.3	103.4
82.5°	67.3	69.3	70.2	70.1	67.5
85°	36.6	37.2	39.0	39.4	38.0
87.5°	14.1	15.1	15.5	16.7	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)