

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: P488381

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-35-120-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: P488381  
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-35-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

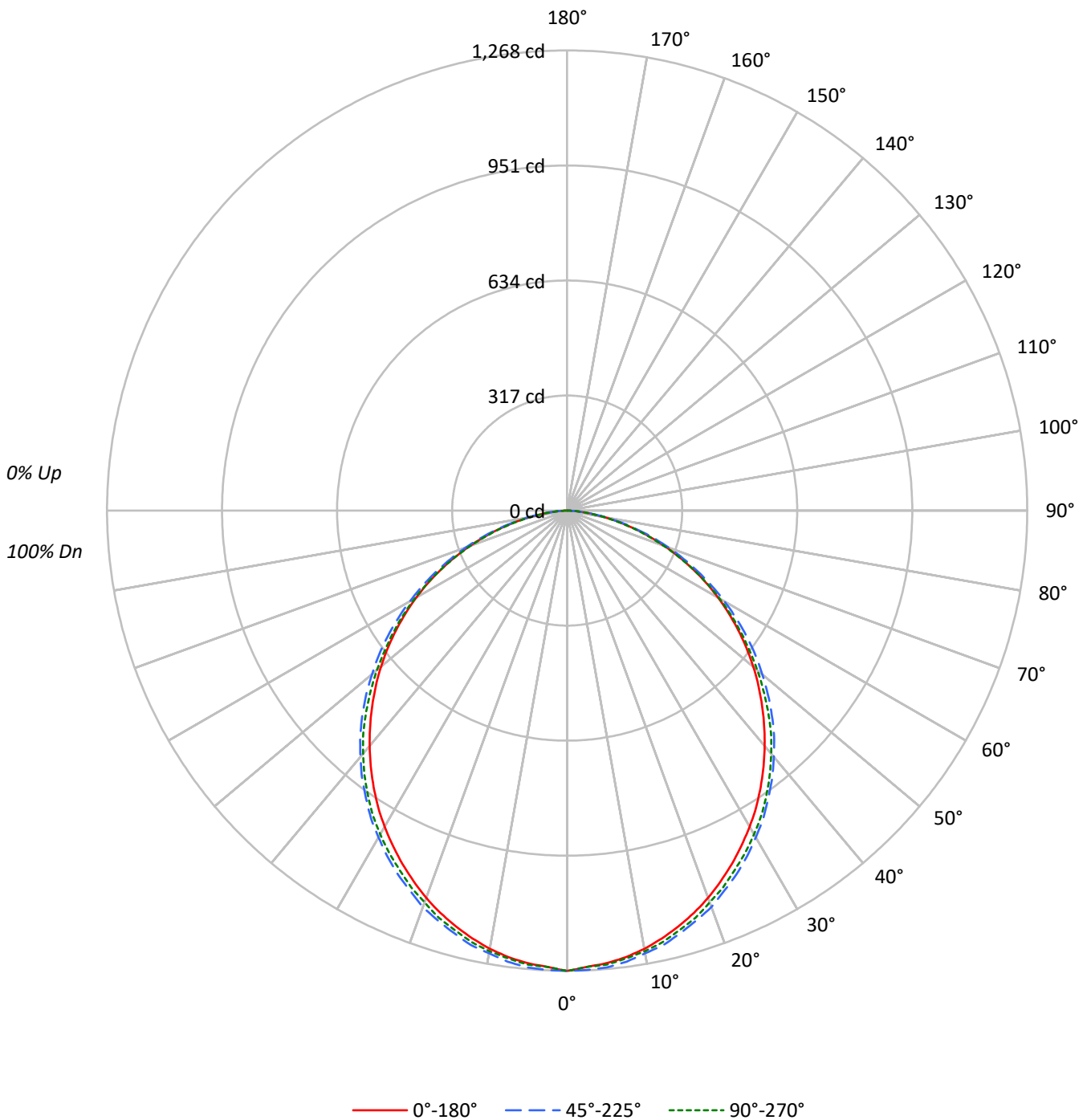
Lumens per Lamp: N/A  
Luminaire Lumens: 3334.6 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6826	6826	6826
5°	6763	6827	6784
10°	6701	6769	6737
15°	6608	6715	6668
20°	6505	6659	6578
25°	6378	6563	6488
30°	6249	6461	6402
35°	6108	6350	6291
40°	5949	6223	6145
45°	5782	6074	5960
50°	5609	5879	5726
55°	5405	5658	5484
60°	5175	5389	5224
65°	4877	5063	4880
70°	4488	4669	4437
75°	3951	4130	3891
80°	3211	3350	3174
85°	2235	2384	2328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.5	3.6
10°-20°	338.5	10.2
20°-30°	504.9	15.1
30°-40°	598.3	17.9
40°-50°	605.4	18.2
50°-60°	528.7	15.9
60°-70°	386.3	11.6
70°-80°	205.6	6.2
80°-90°	47.5	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°	962.8	28.9
0°-40°	1561.1	46.8
0°-60°	2695.2	80.8
0°-90°	3334.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1252	1254	1264	1266	1256	119
15°	1186	1194	1205	1212	1197	334
25°	1074	1087	1105	1109	1092	495
35°	930	944	966	973	958	581
45°	760	773	798	799	783	586
55°	576	588	603	594	584	515
65°	383	391	398	390	383	379
75°	190	194	199	191	187	202
85°	36	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°	1268.4	1268.4	1268.4	1268.4	1268.4
2.5°	1258.5	1262.5	1266.8	1268.6	1258.3
5°	1251.8	1254.2	1263.6	1266.5	1255.8
7.5°	1241.0	1244.6	1253.7	1255.0	1244.7
10°	1226.2	1232.6	1238.6	1245.2	1232.7
12.5°	1207.3	1215.9	1226.2	1227.4	1217.9
15°	1186.0	1194.0	1205.2	1212.5	1196.7
17.5°	1162.2	1169.9	1184.4	1185.8	1176.3
20°	1135.7	1145.2	1162.6	1165.7	1148.6
22.5°	1105.6	1118.4	1132.9	1135.8	1123.3
25°	1074.0	1087.2	1105.2	1109.3	1092.5
27.5°	1040.9	1053.6	1073.8	1076.7	1062.6
30°	1005.5	1017.4	1039.6	1044.5	1030.1
32.5°	969.6	981.5	1006.0	1010.1	996.1
35°	929.7	944.2	966.5	973.3	957.5
37.5°	889.0	903.1	928.5	934.6	917.6
40°	846.8	860.8	885.8	890.8	874.6
42.5°	803.7	817.7	844.4	845.2	831.7
45°	759.7	773.2	798.0	798.7	783.0
47.5°	715.1	728.7	750.9	748.4	733.6
50°	669.9	682.8	702.2	697.2	683.9
52.5°	623.1	635.6	654.0	645.8	633.3
55°	576.0	587.7	603.0	594.3	584.5
57.5°	528.6	540.4	552.1	543.3	534.8
60°	480.8	491.1	500.7	491.7	485.3
62.5°	432.1	441.0	449.3	440.7	434.6
65°	383.0	390.8	397.6	389.7	383.2
67.5°	334.1	340.7	347.0	338.8	332.1
70°	285.2	290.9	296.7	288.2	282.0
72.5°	236.9	242.0	247.1	238.9	233.5
75°	190.0	194.4	198.6	191.4	187.1
77.5°	145.2	148.9	151.8	147.2	143.1
80°	103.6	106.4	108.1	106.2	102.4
82.5°	66.6	68.6	69.5	69.4	66.9
85°	36.2	36.9	38.6	39.0	37.7
87.5°	14.0	14.9	15.3	16.5	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)