

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: P488525

Luminaire Tested: **CLM-12-2-INS-P12125-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: P488525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-2STD-35-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

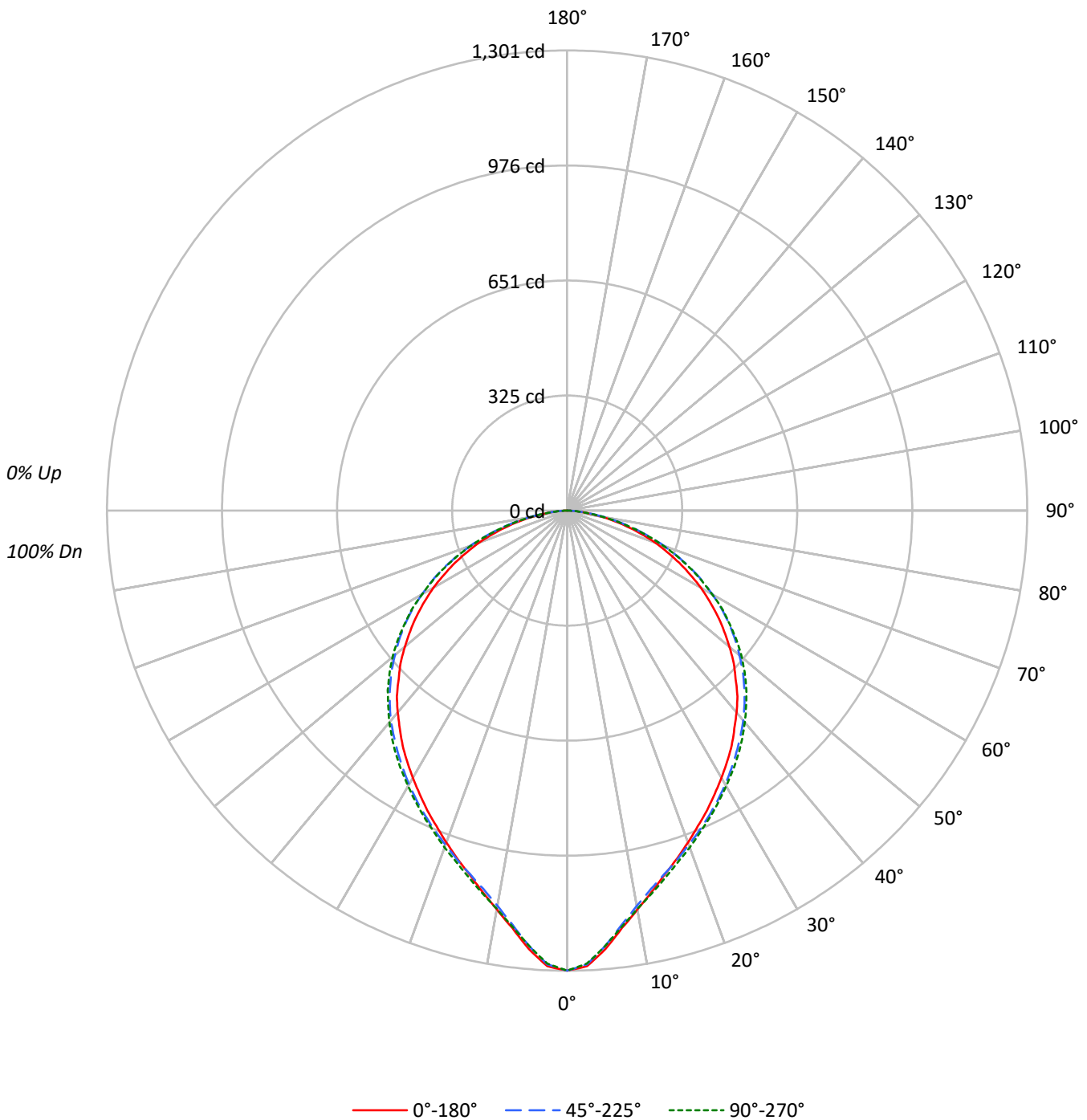
Lumens per Lamp: N/A  
Luminaire Lumens: 3021.3 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7000	7000	7000
5°	6722	6674	6674
10°	6256	6199	6247
15°	5936	5926	5983
20°	5718	5759	5804
25°	5555	5646	5678
30°	5421	5555	5589
35°	5328	5483	5539
40°	5233	5446	5492
45°	5125	5393	5457
50°	5013	5326	5396
55°	4874	5248	5270
60°	4698	5104	5093
65°	4453	4909	4876
70°	4157	4578	4521
75°	3670	4055	4015
80°	2982	3304	3143
85°	2069	2106	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	3.8
10°-20°	301.1	10.0
20°-30°	437.8	14.5
30°-40°	521.0	17.2
40°-50°	540.9	17.9
50°-60°	490.1	16.2
60°-70°	369.8	12.2
70°-80°	201.5	6.7
80°-90°	44.3	1.5
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°	853.8	28.3
0°-40°	1374.7	45.5
0°-60°	2405.7	79.6
0°-90°	3021.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1244	1241	1235	1235	1235	115
15°	1065	1063	1064	1071	1074	301
25°	935	943	951	958	956	431
35°	811	821	835	847	843	507
45°	673	686	708	716	717	521
55°	519	532	559	563	562	464
65°	350	360	386	385	383	346
75°	176	184	195	196	193	188
85°	34	34	34	34	33	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1289.3	1288.0	1283.8	1282.2	1281.8
5°	1244.2	1241.2	1235.4	1234.7	1235.4
7.5°	1190.2	1186.9	1181.1	1183.4	1186.3
10°	1144.7	1136.6	1134.3	1137.6	1143.1
12.5°	1104.1	1097.6	1095.6	1104.1	1108.0
15°	1065.4	1062.8	1063.5	1070.6	1073.8
17.5°	1031.9	1030.3	1034.5	1040.1	1041.7
20°	998.4	1001.7	1005.6	1011.5	1013.4
22.5°	965.6	971.8	978.3	986.1	983.5
25°	935.4	943.2	950.7	958.5	956.2
27.5°	903.2	912.3	922.7	931.2	927.9
30°	872.3	883.7	893.8	904.2	899.3
32.5°	841.8	852.5	864.5	877.2	871.7
35°	810.9	820.7	834.6	847.3	843.1
37.5°	776.8	788.8	804.7	815.8	812.9
40°	744.9	756.0	775.2	782.3	781.7
42.5°	712.8	721.9	742.0	750.1	748.8
45°	673.4	685.5	708.5	716.3	717.0
47.5°	638.7	648.7	673.4	679.6	680.9
50°	598.7	611.4	636.1	643.5	644.5
52.5°	559.3	573.0	598.4	603.5	604.5
55°	519.4	531.7	559.3	563.3	561.6
57.5°	477.5	492.4	517.8	519.7	521.3
60°	436.5	449.5	474.2	476.8	473.2
62.5°	392.0	405.3	430.7	431.3	428.4
65°	349.7	359.8	385.5	384.8	382.9
67.5°	305.5	317.9	336.7	337.4	335.8
70°	264.2	272.7	290.9	291.2	287.3
72.5°	219.7	228.8	243.4	241.5	240.5
75°	176.5	183.6	195.0	196.3	193.1
77.5°	136.8	142.0	150.5	149.5	145.9
80°	96.2	100.4	106.6	105.3	101.4
82.5°	61.4	64.0	67.9	66.3	64.7
85°	33.5	33.8	34.1	33.8	32.8
87.5°	12.3	12.7	12.7	12.3	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)