

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: P488379

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2STD-30-120-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: P488379  
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-30-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

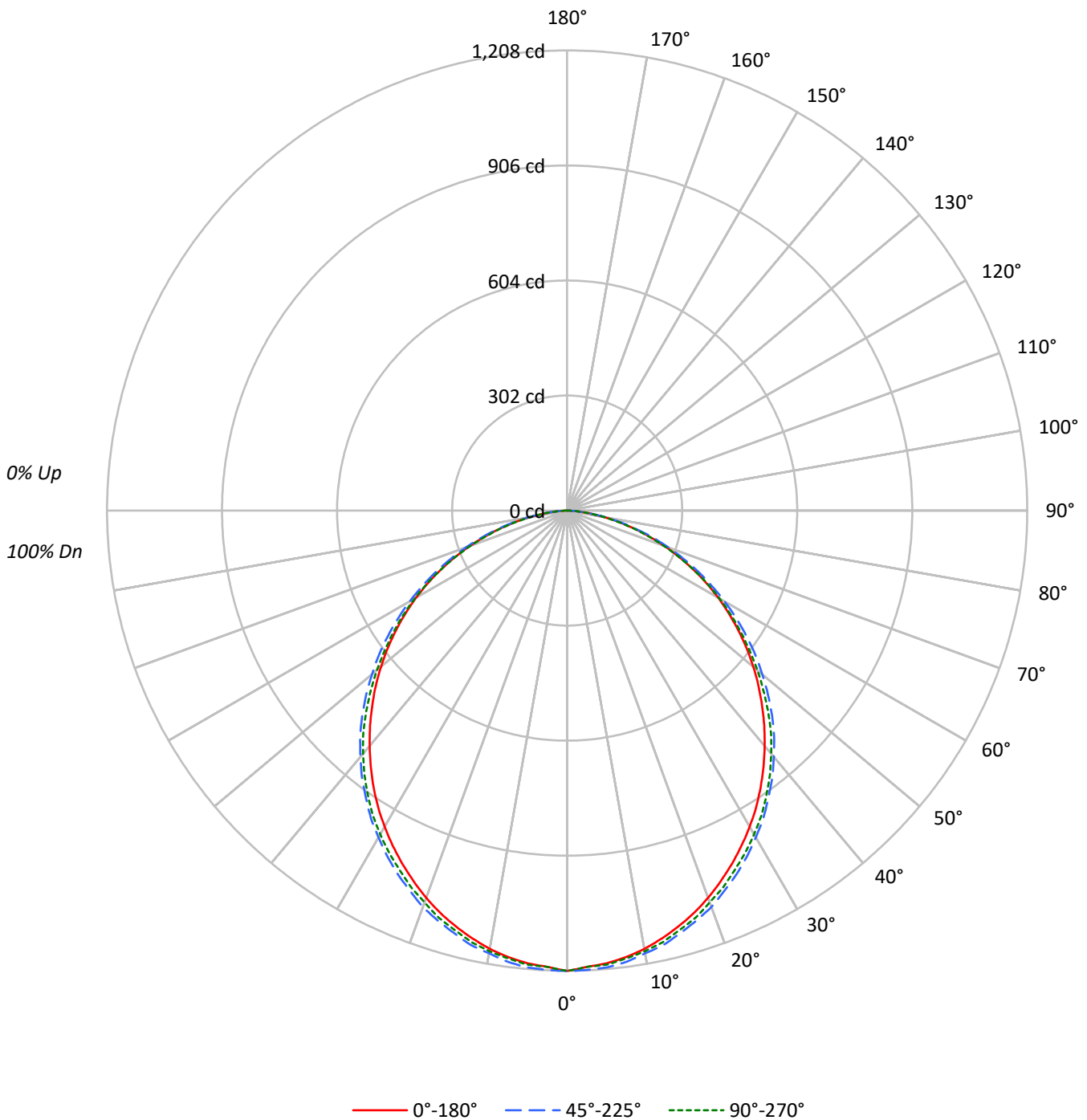
Lumens per Lamp: N/A  
Luminaire Lumens: 3177.1 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6504	6504	6504
5°	6444	6504	6464
10°	6385	6449	6419
15°	6296	6398	6353
20°	6197	6344	6268
25°	6076	6253	6181
30°	5954	6156	6099
35°	5820	6050	5994
40°	5668	5930	5854
45°	5509	5788	5678
50°	5344	5602	5456
55°	5149	5391	5225
60°	4930	5135	4976
65°	4647	4825	4649
70°	4275	4449	4228
75°	3766	3934	3708
80°	3059	3192	3025
85°	2130	2272	2217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	3.6
10°-20°	322.5	10.2
20°-30°	481.0	15.1
30°-40°	570.0	17.9
40°-50°	576.8	18.2
50°-60°	503.7	15.9
60°-70°	368.1	11.6
70°-80°	195.9	6.2
80°-90°	45.3	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°	917.4	28.9
0°-40°	1487.4	46.8
0°-60°	2567.9	80.8
0°-90°	3177.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1193	1195	1204	1207	1196	113
15°	1130	1138	1148	1155	1140	319
25°	1023	1036	1053	1057	1041	471
35°	886	900	921	927	912	554
45°	724	737	760	761	746	558
55°	549	560	574	566	557	491
65°	365	372	379	371	365	361
75°	181	185	189	182	178	193
85°	34	35	37	37	36	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1199.0	1202.9	1206.9	1208.7	1198.9
5°	1192.7	1195.0	1203.9	1206.7	1196.5
7.5°	1182.4	1185.8	1194.5	1195.7	1185.9
10°	1168.3	1174.3	1180.1	1186.4	1174.5
12.5°	1150.3	1158.5	1168.3	1169.4	1160.4
15°	1130.0	1137.6	1148.3	1155.2	1140.2
17.5°	1107.4	1114.7	1128.5	1129.8	1120.7
20°	1082.0	1091.1	1107.7	1110.6	1094.4
22.5°	1053.3	1065.6	1079.4	1082.2	1070.2
25°	1023.2	1035.8	1053.0	1056.9	1040.9
27.5°	991.8	1003.9	1023.1	1025.9	1012.4
30°	958.0	969.4	990.5	995.2	981.4
32.5°	923.8	935.1	958.5	962.4	949.1
35°	885.8	899.6	920.9	927.3	912.3
37.5°	847.0	860.4	884.6	890.4	874.3
40°	806.8	820.2	844.0	848.7	833.3
42.5°	765.8	779.1	804.5	805.3	792.5
45°	723.8	736.7	760.4	761.0	746.0
47.5°	681.3	694.3	715.4	713.0	698.9
50°	638.2	650.6	669.1	664.3	651.6
52.5°	593.7	605.6	623.1	615.3	603.3
55°	548.8	559.9	574.5	566.2	556.9
57.5°	503.6	514.8	526.0	517.6	509.5
60°	458.0	467.9	477.1	468.5	462.3
62.5°	411.7	420.2	428.1	419.9	414.1
65°	364.9	372.3	378.9	371.3	365.1
67.5°	318.3	324.6	330.6	322.8	316.4
70°	271.7	277.1	282.7	274.6	268.7
72.5°	225.8	230.5	235.4	227.6	222.5
75°	181.1	185.2	189.2	182.3	178.3
77.5°	138.4	141.9	144.7	140.3	136.4
80°	98.7	101.4	103.0	101.2	97.6
82.5°	63.5	65.3	66.2	66.1	63.7
85°	34.5	35.1	36.8	37.1	35.9
87.5°	13.3	14.2	14.6	15.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)