

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: P488565

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-50-120-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: P488565  
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-12-4-INS-A12125-LD4-1STD-50-120-EDD  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

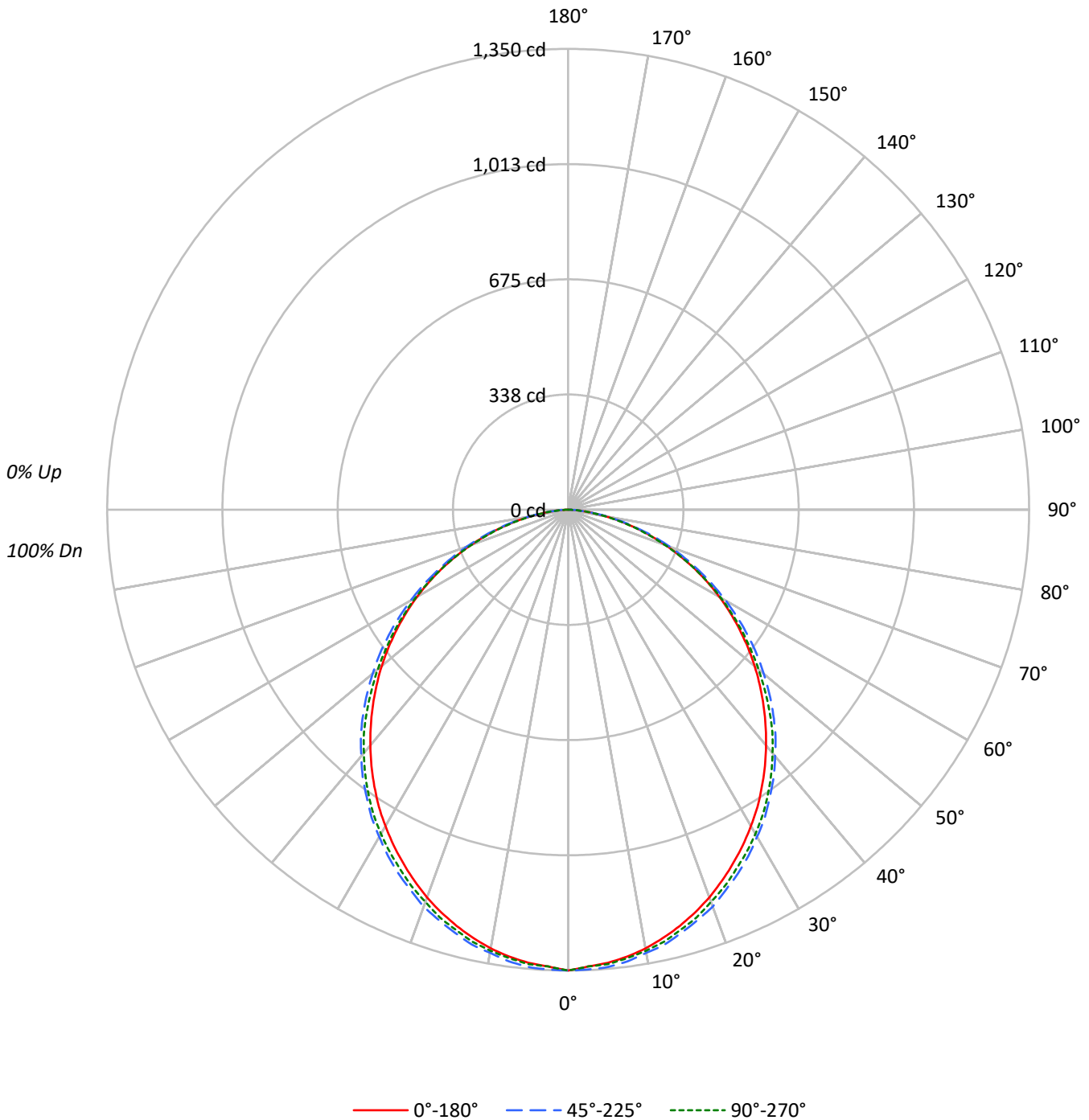
Lumens per Lamp: N/A  
Luminaire Lumens: 3549.2 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	3633	3633	3633
5°	3599	3633	3611
10°	3566	3602	3585
15°	3517	3574	3549
20°	3462	3544	3501
25°	3394	3493	3453
30°	3325	3438	3407
35°	3251	3379	3348
40°	3166	3312	3270
45°	3077	3232	3172
50°	2985	3129	3047
55°	2876	3011	2919
60°	2754	2868	2780
65°	2595	2695	2597
70°	2388	2485	2362
75°	2103	2198	2071
80°	1709	1784	1689
85°	1189	1269	1238



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	3.6
10°-20°	360.3	10.2
20°-30°	537.4	15.1
30°-40°	636.8	17.9
40°-50°	644.3	18.2
50°-60°	562.7	15.9
60°-70°	411.2	11.6
70°-80°	218.8	6.2
80°-90°	50.6	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°	1024.8	28.9
0°-40°	1661.6	46.8
0°-60°	2868.6	80.8
0°-90°	3549.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1332	1335	1345	1348	1337	126
15°	1262	1271	1283	1290	1274	356
25°	1143	1157	1176	1181	1163	527
35°	990	1005	1029	1036	1019	619
45°	809	823	849	850	833	624
55°	613	626	642	632	622	548
65°	408	416	423	415	408	403
75°	202	207	211	204	199	215
85°	38	39	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°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1339.4	1343.8	1348.3	1350.3	1339.3
5°	1332.4	1334.9	1344.9	1348.0	1336.6
7.5°	1320.9	1324.7	1334.4	1335.8	1324.8
10°	1305.1	1311.9	1318.3	1325.4	1312.0
12.5°	1285.0	1294.2	1305.1	1306.4	1296.3
15°	1262.4	1270.8	1282.8	1290.5	1273.8
17.5°	1237.0	1245.2	1260.7	1262.1	1252.0
20°	1208.8	1218.9	1237.5	1240.7	1222.6
22.5°	1176.7	1190.3	1205.8	1208.9	1195.6
25°	1143.1	1157.2	1176.3	1180.6	1162.8
27.5°	1107.9	1121.4	1142.9	1146.0	1131.0
30°	1070.2	1082.9	1106.5	1111.7	1096.4
32.5°	1032.0	1044.6	1070.8	1075.2	1060.2
35°	989.5	1005.0	1028.7	1035.9	1019.2
37.5°	946.2	961.2	988.2	994.7	976.7
40°	901.3	916.2	942.8	948.1	930.8
42.5°	855.5	870.4	898.8	899.6	885.3
45°	808.6	823.0	849.4	850.1	833.4
47.5°	761.1	775.6	799.2	796.5	780.8
50°	713.0	726.8	747.4	742.1	727.9
52.5°	663.2	676.5	696.1	687.4	674.0
55°	613.1	625.5	641.8	632.5	622.1
57.5°	562.6	575.1	587.6	578.2	569.2
60°	511.7	522.7	532.9	523.4	516.5
62.5°	459.9	469.4	478.2	469.1	462.6
65°	407.6	415.9	423.2	414.8	407.9
67.5°	355.6	362.6	369.4	360.6	353.5
70°	303.5	309.6	315.8	306.8	300.2
72.5°	252.2	257.5	263.0	254.3	248.5
75°	202.3	206.9	211.4	203.7	199.2
77.5°	154.6	158.5	161.6	156.7	152.3
80°	110.3	113.2	115.1	113.1	109.0
82.5°	70.9	73.0	74.0	73.8	71.2
85°	38.5	39.2	41.1	41.5	40.1
87.5°	14.9	15.9	16.3	17.6	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)