

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: P488564

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-50-120-EDD-90**

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: P488564  
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-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

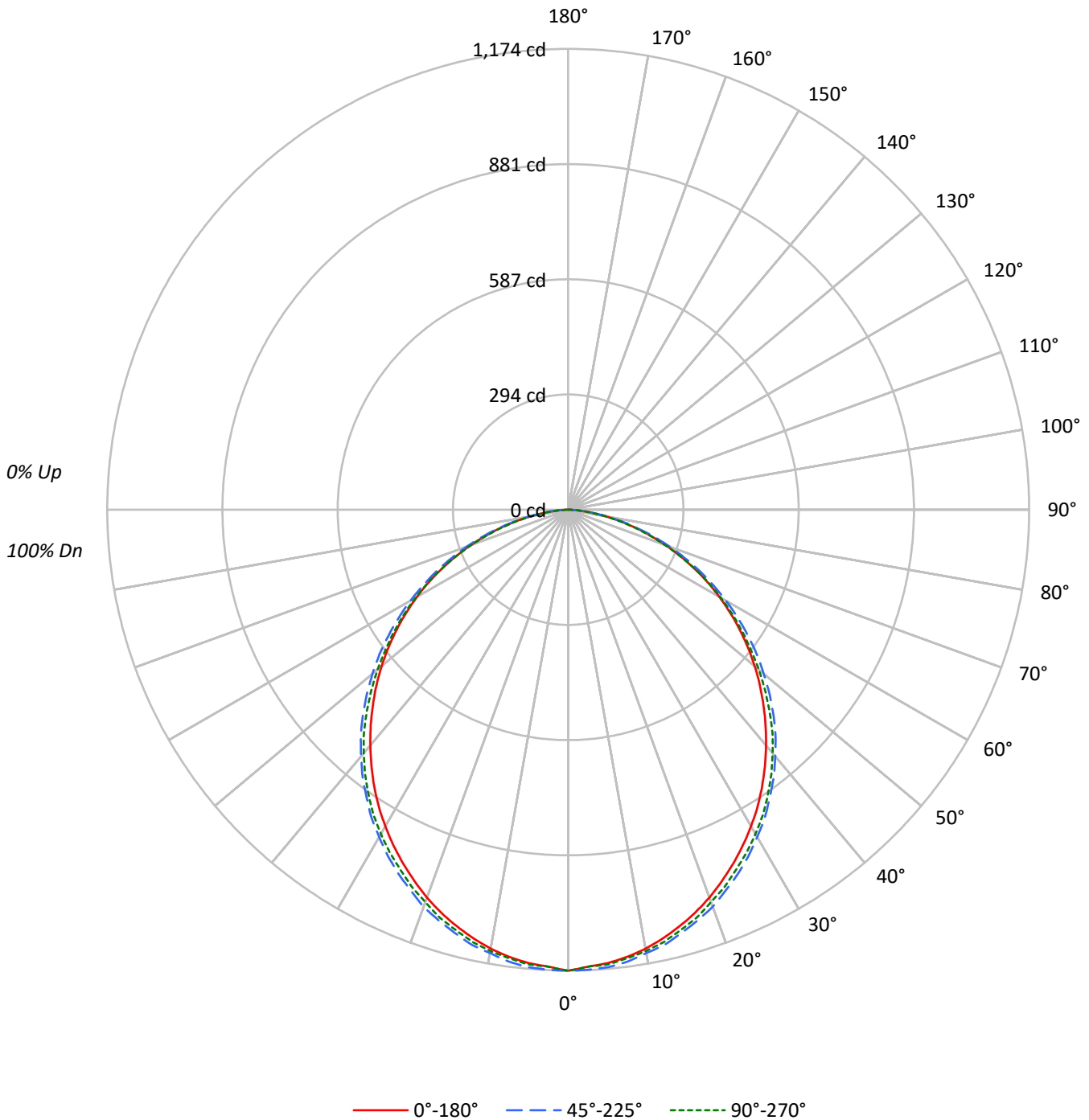
Lumens per Lamp: N/A  
Luminaire Lumens: 3087.8 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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°	3161	3161	3161
5°	3131	3161	3141
10°	3103	3134	3119
15°	3060	3109	3087
20°	3011	3083	3046
25°	2953	3039	3004
30°	2893	2991	2964
35°	2828	2940	2913
40°	2754	2881	2845
45°	2677	2812	2759
50°	2597	2722	2651
55°	2502	2620	2539
60°	2396	2496	2418
65°	2258	2344	2260
70°	2078	2161	2054
75°	1830	1912	1802
80°	1486	1551	1469
85°	1034	1102	1078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	3.6
10°-20°	313.5	10.2
20°-30°	467.5	15.1
30°-40°	554.0	17.9
40°-50°	560.6	18.2
50°-60°	489.6	15.9
60°-70°	357.8	11.6
70°-80°	190.3	6.2
80°-90°	44.0	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°	891.6	28.9
0°-40°	1445.6	46.8
0°-60°	2495.7	80.8
0°-90°	3087.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3087.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1159	1161	1170	1173	1163	110
15°	1098	1106	1116	1123	1108	310
25°	994	1007	1023	1027	1012	458
35°	861	874	895	901	887	538
45°	704	716	739	740	725	543
55°	533	544	558	550	541	477
65°	355	362	368	361	355	351
75°	176	180	184	177	173	187
85°	34	34	36	36	35	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.5	1174.5	1174.5	1174.5	1174.5
2.5°	1165.3	1169.1	1173.0	1174.7	1165.2
5°	1159.2	1161.4	1170.1	1172.8	1162.9
7.5°	1149.2	1152.5	1160.9	1162.1	1152.6
10°	1135.5	1141.3	1147.0	1153.1	1141.4
12.5°	1118.0	1125.9	1135.5	1136.6	1127.7
15°	1098.3	1105.6	1116.0	1122.7	1108.2
17.5°	1076.2	1083.3	1096.8	1098.0	1089.2
20°	1051.6	1060.4	1076.6	1079.4	1063.6
22.5°	1023.7	1035.6	1049.1	1051.8	1040.1
25°	994.5	1006.7	1023.4	1027.2	1011.6
27.5°	963.9	975.6	994.4	997.1	984.0
30°	931.1	942.1	962.7	967.2	953.9
32.5°	897.8	908.8	931.6	935.4	922.4
35°	860.9	874.3	895.0	901.2	886.7
37.5°	823.2	836.3	859.8	865.4	849.7
40°	784.1	797.1	820.2	824.9	809.8
42.5°	744.2	757.2	781.9	782.7	770.2
45°	703.5	716.0	739.0	739.6	725.0
47.5°	662.1	674.7	695.3	693.0	679.3
50°	620.3	632.3	650.3	645.6	633.3
52.5°	577.0	588.6	605.6	598.0	586.4
55°	533.4	544.2	558.4	550.3	541.2
57.5°	489.5	500.4	511.3	503.1	495.2
60°	445.2	454.7	463.7	455.3	449.3
62.5°	400.1	408.3	416.1	408.1	402.5
65°	354.6	361.8	368.2	360.9	354.9
67.5°	309.3	315.5	321.3	313.8	307.5
70°	264.1	269.3	274.7	266.9	261.1
72.5°	219.4	224.1	228.8	221.2	216.2
75°	176.0	180.0	183.9	177.2	173.3
77.5°	134.5	137.9	140.6	136.3	132.5
80°	95.9	98.5	100.1	98.4	94.8
82.5°	61.7	63.5	64.4	64.2	61.9
85°	33.5	34.1	35.7	36.1	34.9
87.5°	13.0	13.8	14.2	15.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)