

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P488318

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-30-120-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.

Report Generated By E9911574 / USPTCWHP6081592



**Test Information**

Test Method: LM-79-08  
Report Number: P488318  
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-LD4-1HI-30-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

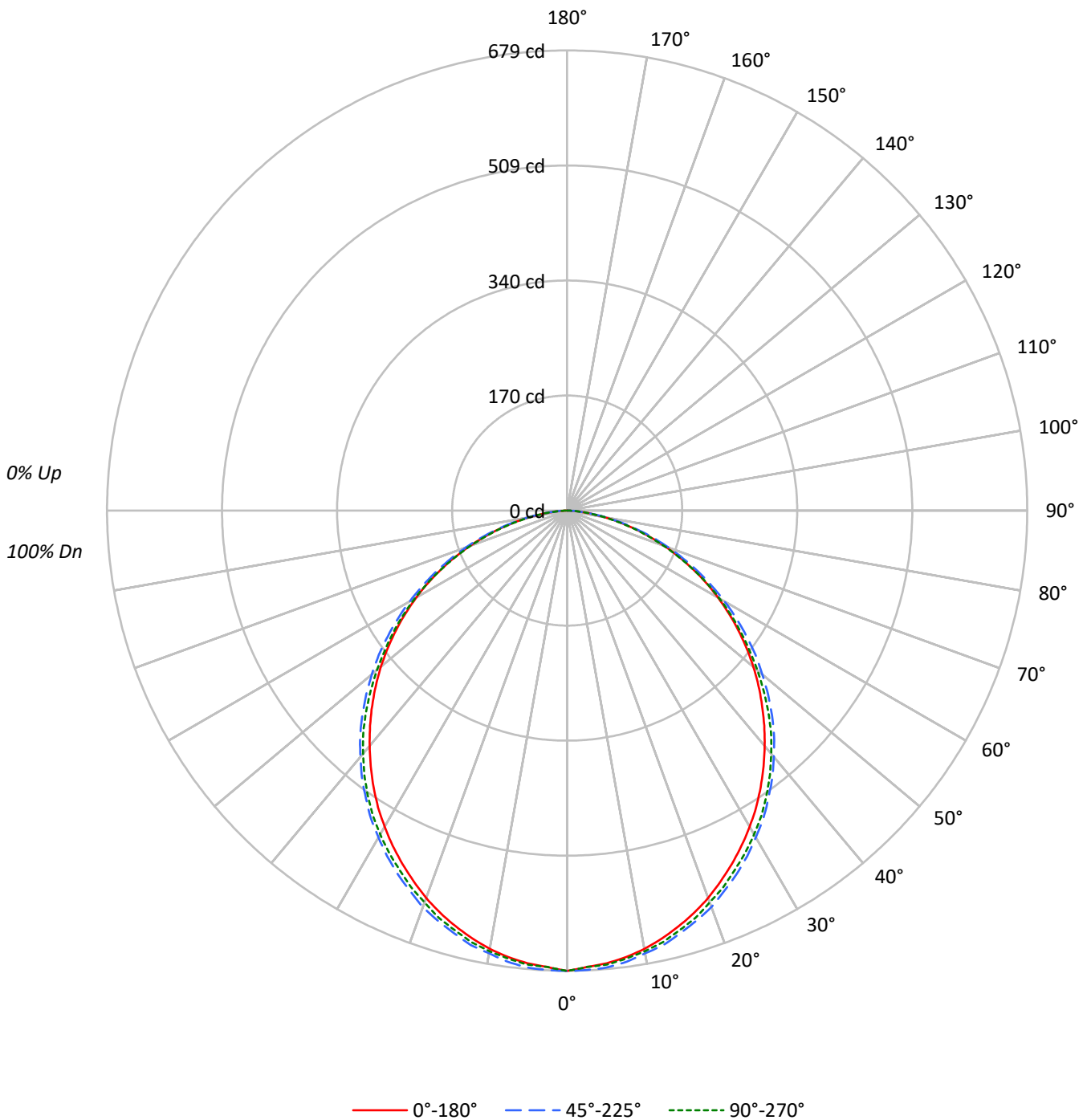
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1786.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 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): 21.6  
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	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10																			
RCR	0	119	119	119	119	116	116	116	116	111	111	111	111	111	106	106	106	106	106	106	102	102	102	102	102	102	102	102	102	102	102	102	100																					
	1	109	105	100	97	106	102	98	95	98	95	92	92	92	94	92	89	89	89	89	91	88	87	87	87	87	87	87	87	87	87	87	85																					
	2	99	91	85	79	97	90	83	78	86	81	76	76	76	83	78	75	75	75	75	80	76	73	73	73	73	73	73	73	73	73	73	71																					
	3	91	80	72	66	88	79	71	65	76	70	64	64	64	73	68	63	63	63	63	71	66	62	62	62	62	62	62	62	62	62	62	60																					
	4	83	71	63	56	81	70	62	56	68	61	55	55	55	65	59	54	54	54	54	63	58	54	54	54	54	54	54	54	54	54	54	51																					
	5	77	64	55	48	75	63	54	48	61	53	48	48	48	59	52	47	47	47	47	57	51	47	47	47	47	47	47	47	47	47	47	45																					
	6	71	58	49	42	69	57	48	42	55	47	42	42	42	53	47	41	41	41	41	52	46	41	41	41	41	41	41	41	41	41	41	39																					
	7	66	52	44	38	64	51	43	37	50	43	37	37	37	49	42	37	37	37	37	47	41	37	37	37	37	37	37	37	37	37	37	35																					
	8	61	48	39	34	60	47	39	33	46	38	33	33	33	45	38	33	33	33	33	43	37	33	33	33	33	33	33	33	33	33	33	31																					
	9	57	44	36	30	56	43	35	30	42	35	30	30	30	41	35	30	30	30	30	40	34	30	30	30	30	30	30	30	30	30	30	28																					
	10	54	41	33	27	52	40	32	27	39	32	27	27	27	38	32	27	27	27	27	37	31	27	27	27	27	27	27	27	27	27	27	25																					

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

	0°	45°	90°
0°	3656	3656	3656
5°	3622	3656	3634
10°	3589	3625	3608
15°	3539	3597	3572
20°	3484	3566	3523
25°	3416	3515	3475
30°	3347	3460	3429
35°	3271	3401	3370
40°	3186	3333	3291
45°	3097	3253	3192
50°	3004	3149	3067
55°	2895	3031	2938
60°	2772	2887	2798
65°	2612	2713	2614
70°	2403	2500	2376
75°	2117	2213	2084
80°	1720	1795	1702
85°	1198	1278	1247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	3.6
10°-20°	181.3	10.2
20°-30°	270.4	15.1
30°-40°	320.4	17.9
40°-50°	324.2	18.2
50°-60°	283.2	15.9
60°-70°	206.9	11.6
70°-80°	110.1	6.2
80°-90°	25.4	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
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0°-30°	515.7	28.9
0°-40°	836.1	46.8
0°-60°	1443.5	80.8
0°-90°	1786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1786.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	670	672	677	678	673	64
15°	635	640	646	649	641	179
25°	575	582	592	594	585	265
35°	498	506	518	521	513	311
45°	407	414	427	428	419	314
55°	308	315	323	318	313	276
65°	205	209	213	209	205	203
75°	102	104	106	102	100	108
85°	19	20	21	21	20	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	679.3	679.3	679.3	679.3	679.3
2.5°	674.0	676.2	678.5	679.5	674.0
5°	670.5	671.8	676.8	678.3	672.6
7.5°	664.7	666.6	671.5	672.2	666.7
10°	656.8	660.1	663.4	666.9	660.2
12.5°	646.6	651.2	656.8	657.4	652.3
15°	635.2	639.5	645.5	649.4	641.0
17.5°	622.5	626.6	634.4	635.1	630.0
20°	608.3	613.4	622.7	624.3	615.2
22.5°	592.1	599.0	606.8	608.3	601.6
25°	575.2	582.3	591.9	594.1	585.1
27.5°	557.5	564.3	575.1	576.7	569.1
30°	538.6	544.9	556.8	559.4	551.7
32.5°	519.3	525.7	538.8	541.0	533.5
35°	497.9	505.7	517.7	521.3	512.9
37.5°	476.1	483.7	497.3	500.5	491.5
40°	453.5	461.1	474.4	477.1	468.4
42.5°	430.5	438.0	452.3	452.7	445.5
45°	406.9	414.1	427.4	427.8	419.4
47.5°	383.0	390.3	402.2	400.8	392.9
50°	358.8	365.7	376.1	373.4	366.3
52.5°	333.7	340.4	350.3	345.9	339.2
55°	308.5	314.8	323.0	318.3	313.1
57.5°	283.1	289.4	295.7	291.0	286.4
60°	257.5	263.0	268.2	263.4	259.9
62.5°	231.4	236.2	240.6	236.0	232.8
65°	205.1	209.3	213.0	208.7	205.3
67.5°	178.9	182.5	185.9	181.5	177.9
70°	152.7	155.8	158.9	154.4	151.0
72.5°	126.9	129.6	132.4	128.0	125.1
75°	101.8	104.1	106.4	102.5	100.2
77.5°	77.8	79.8	81.3	78.8	76.7
80°	55.5	57.0	57.9	56.9	54.9
82.5°	35.7	36.7	37.2	37.2	35.8
85°	19.4	19.7	20.7	20.9	20.2
87.5°	7.5	8.0	8.2	8.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)