

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: P488460

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1HI-27-120-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: P488460  
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-LD4-1HI-27-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

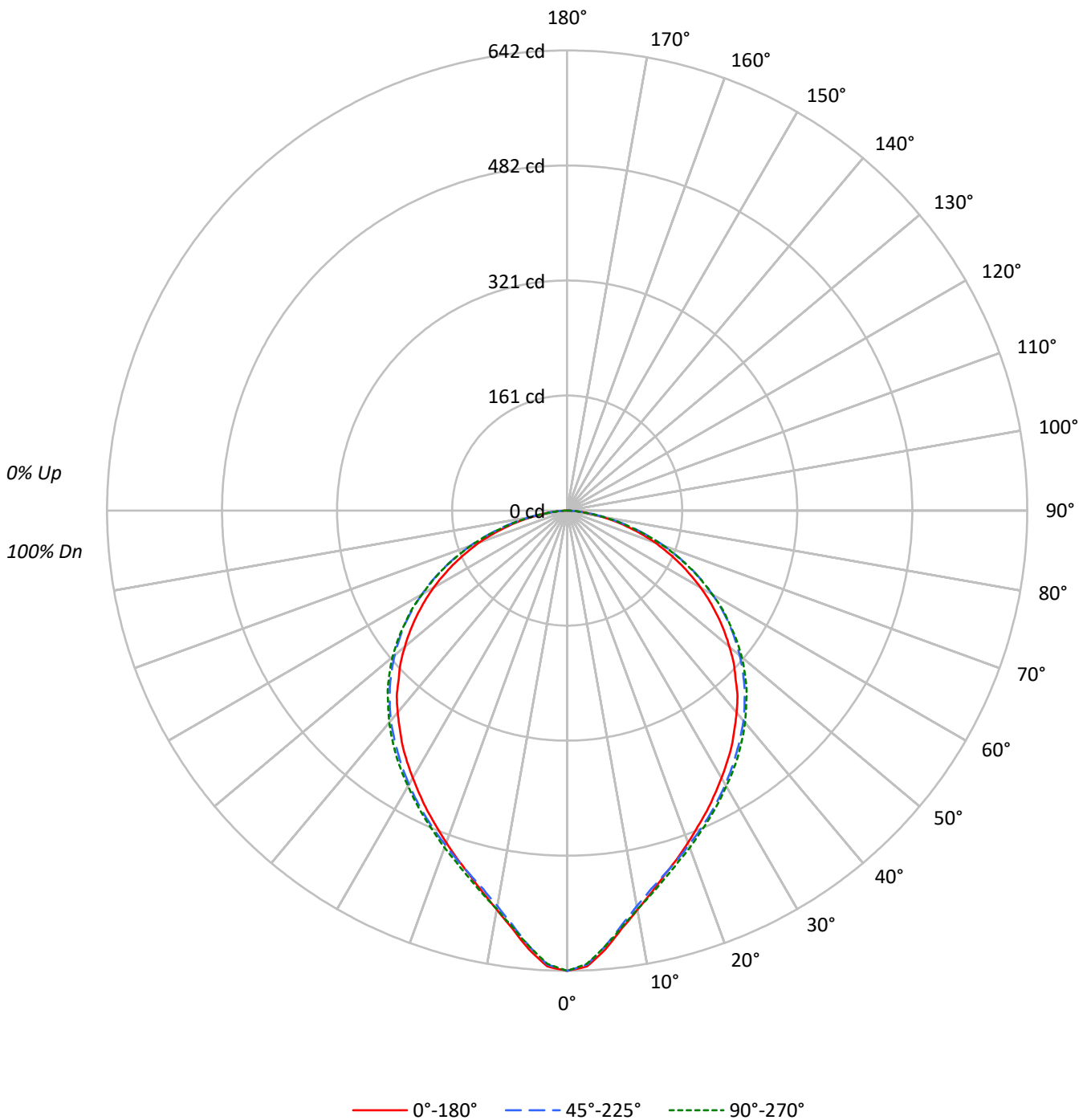
Lumens per Lamp: N/A  
Luminaire Lumens: 1491.8 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	3456	3456	3456
5°	3319	3296	3296
10°	3089	3061	3084
15°	2931	2926	2954
20°	2824	2844	2866
25°	2743	2787	2803
30°	2677	2742	2759
35°	2631	2708	2735
40°	2584	2689	2712
45°	2531	2662	2694
50°	2475	2630	2664
55°	2406	2592	2602
60°	2320	2520	2516
65°	2199	2423	2407
70°	2054	2260	2233
75°	1811	2002	1982
80°	1472	1630	1553
85°	1019	1037	1000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	3.8
10°-20°	148.6	10.0
20°-30°	216.2	14.5
30°-40°	257.2	17.2
40°-50°	267.1	17.9
50°-60°	242.0	16.2
60°-70°	182.6	12.2
70°-80°	99.5	6.7
80°-90°	21.9	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°	421.6	28.3
0°-40°	678.8	45.5
0°-60°	1187.8	79.6
0°-90°	1491.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1491.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	614	613	610	610	610	57
15°	526	525	525	529	530	148
25°	462	466	469	473	472	213
35°	400	405	412	418	416	250
45°	332	338	350	354	354	257
55°	256	262	276	278	277	229
65°	173	178	190	190	189	171
75°	87	91	96	97	95	93
85°	16	17	17	17	16	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	642.2	642.2	642.2	642.2	642.2
2.5°	636.6	636.0	633.9	633.1	632.9
5°	614.3	612.9	610.0	609.7	610.0
7.5°	587.7	586.1	583.2	584.3	585.8
10°	565.2	561.2	560.1	561.7	564.4
12.5°	545.1	541.9	541.0	545.1	547.1
15°	526.0	524.8	525.1	528.6	530.2
17.5°	509.5	508.7	510.8	513.5	514.3
20°	493.0	494.6	496.5	499.4	500.4
22.5°	476.8	479.8	483.1	486.9	485.6
25°	461.9	465.7	469.4	473.3	472.1
27.5°	446.0	450.5	455.6	459.8	458.2
30°	430.7	436.3	441.3	446.5	444.0
32.5°	415.6	420.9	426.9	433.1	430.4
35°	400.4	405.2	412.1	418.4	416.3
37.5°	383.6	389.5	397.3	402.8	401.4
40°	367.8	373.3	382.7	386.3	386.0
42.5°	351.9	356.4	366.4	370.4	369.7
45°	332.5	338.5	349.8	353.7	354.0
47.5°	315.3	320.3	332.5	335.6	336.2
50°	295.6	301.9	314.1	317.7	318.2
52.5°	276.2	282.9	295.4	298.0	298.5
55°	256.4	262.5	276.2	278.1	277.3
57.5°	235.7	243.1	255.7	256.6	257.4
60°	215.5	221.9	234.1	235.4	233.7
62.5°	193.5	200.1	212.6	213.0	211.5
65°	172.7	177.6	190.3	190.0	189.0
67.5°	150.8	156.9	166.3	166.6	165.8
70°	130.5	134.6	143.6	143.8	141.9
72.5°	108.5	113.0	120.2	119.2	118.8
75°	87.1	90.7	96.3	96.9	95.3
77.5°	67.6	70.1	74.3	73.8	72.1
80°	47.5	49.6	52.6	52.0	50.1
82.5°	30.3	31.6	33.5	32.7	31.9
85°	16.5	16.7	16.8	16.7	16.2
87.5°	6.1	6.3	6.3	6.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)