

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: P488487

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-1STD-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: P488487  
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-LD4-1STD-30-120-EDD  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

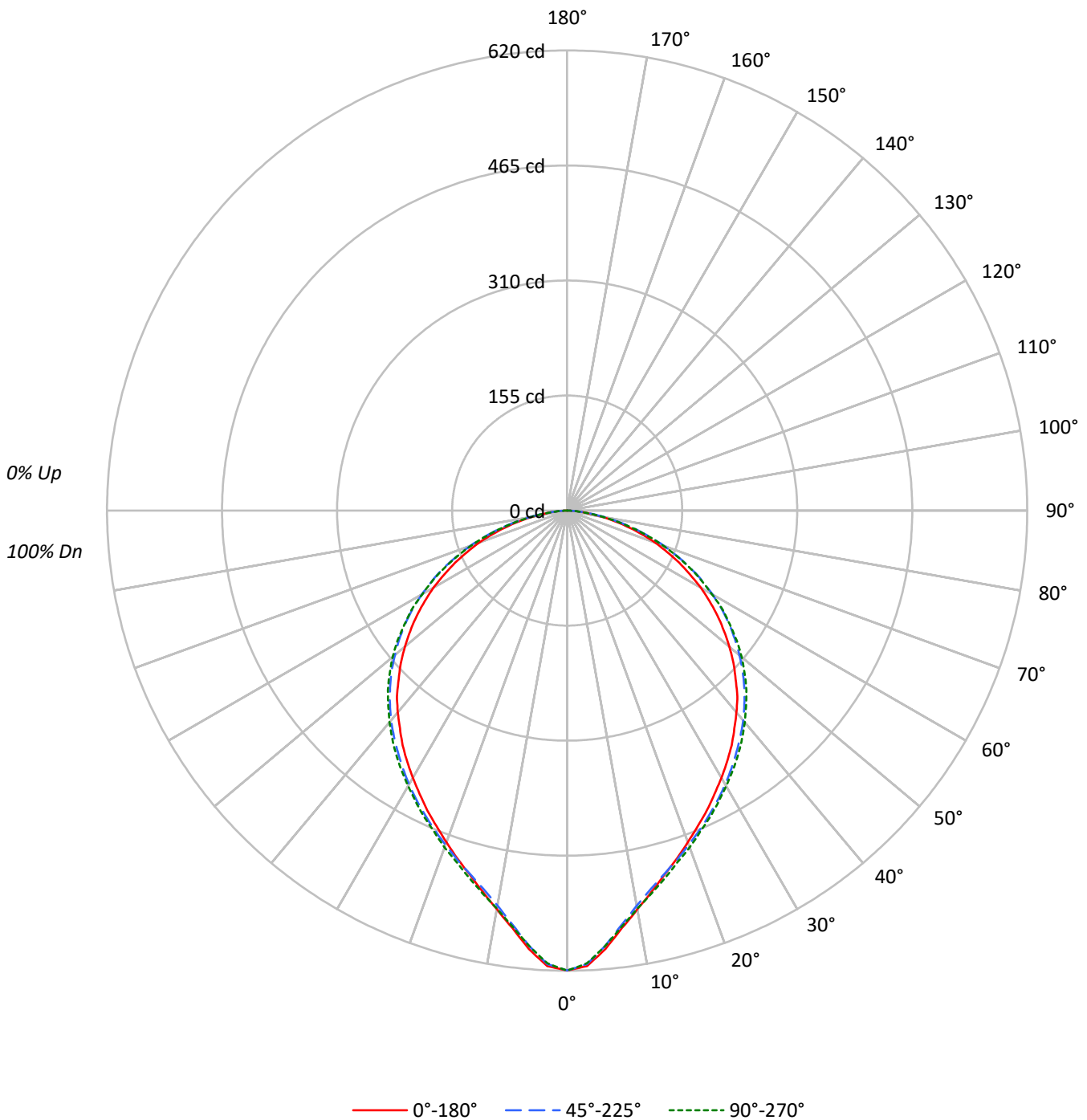
Lumens per Lamp: N/A  
Luminaire Lumens: 1439.3 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	3335	3335	3335
5°	3202	3179	3179
10°	2980	2953	2976
15°	2828	2823	2851
20°	2724	2744	2765
25°	2646	2689	2705
30°	2583	2646	2662
35°	2538	2612	2639
40°	2493	2595	2616
45°	2442	2569	2600
50°	2388	2537	2570
55°	2321	2501	2511
60°	2238	2432	2426
65°	2122	2338	2323
70°	1981	2181	2154
75°	1749	1932	1913
80°	1420	1574	1497
85°	988	1007	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	3.8
10°-20°	143.4	10.0
20°-30°	208.6	14.5
30°-40°	248.2	17.2
40°-50°	257.7	17.9
50°-60°	233.5	16.2
60°-70°	176.2	12.2
70°-80°	96.0	6.7
80°-90°	21.1	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°	406.7	28.3
0°-40°	654.9	45.5
0°-60°	1146.1	79.6
0°-90°	1439.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1439.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	593	591	588	588	588	55
15°	508	506	507	510	512	143
25°	446	449	453	457	456	205
35°	386	391	398	404	402	242
45°	321	326	338	341	342	248
55°	247	253	266	268	268	221
65°	167	171	184	183	182	165
75°	84	88	93	94	92	90
85°	16	16	16	16	16	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	619.6	619.6	619.6	619.6	619.6
2.5°	614.2	613.6	611.6	610.8	610.7
5°	592.7	591.3	588.5	588.2	588.5
7.5°	567.0	565.4	562.7	563.7	565.1
10°	545.3	541.5	540.4	541.9	544.5
12.5°	526.0	522.9	521.9	526.0	527.8
15°	507.5	506.3	506.6	510.0	511.6
17.5°	491.6	490.8	492.8	495.5	496.2
20°	475.6	477.2	479.1	481.8	482.8
22.5°	460.0	462.9	466.1	469.8	468.5
25°	445.6	449.3	452.9	456.6	455.5
27.5°	430.3	434.6	439.6	443.6	442.0
30°	415.6	421.0	425.8	430.7	428.4
32.5°	401.0	406.1	411.9	417.9	415.3
35°	386.3	391.0	397.6	403.7	401.6
37.5°	370.1	375.8	383.4	388.6	387.2
40°	354.9	360.1	369.3	372.7	372.4
42.5°	339.5	343.9	353.5	357.4	356.7
45°	320.8	326.5	337.5	341.3	341.6
47.5°	304.2	309.1	320.8	323.8	324.4
50°	285.2	291.2	303.0	306.6	307.0
52.5°	266.5	273.0	285.0	287.5	288.0
55°	247.4	253.3	266.5	268.3	267.6
57.5°	227.5	234.6	246.7	247.6	248.4
60°	207.9	214.1	225.9	227.1	225.4
62.5°	186.7	193.1	205.2	205.5	204.1
65°	166.6	171.4	183.6	183.3	182.4
67.5°	145.5	151.4	160.4	160.7	159.9
70°	125.9	129.9	138.6	138.7	136.9
72.5°	104.7	109.0	116.0	115.0	114.6
75°	84.1	87.5	92.9	93.5	92.0
77.5°	65.2	67.7	71.7	71.2	69.5
80°	45.8	47.8	50.8	50.2	48.3
82.5°	29.3	30.5	32.4	31.6	30.8
85°	16.0	16.1	16.3	16.1	15.6
87.5°	5.9	6.0	6.0	5.9	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)