

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: P488508

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-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: P488508  
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-LD4-2LO-27-120-EDD-90  
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

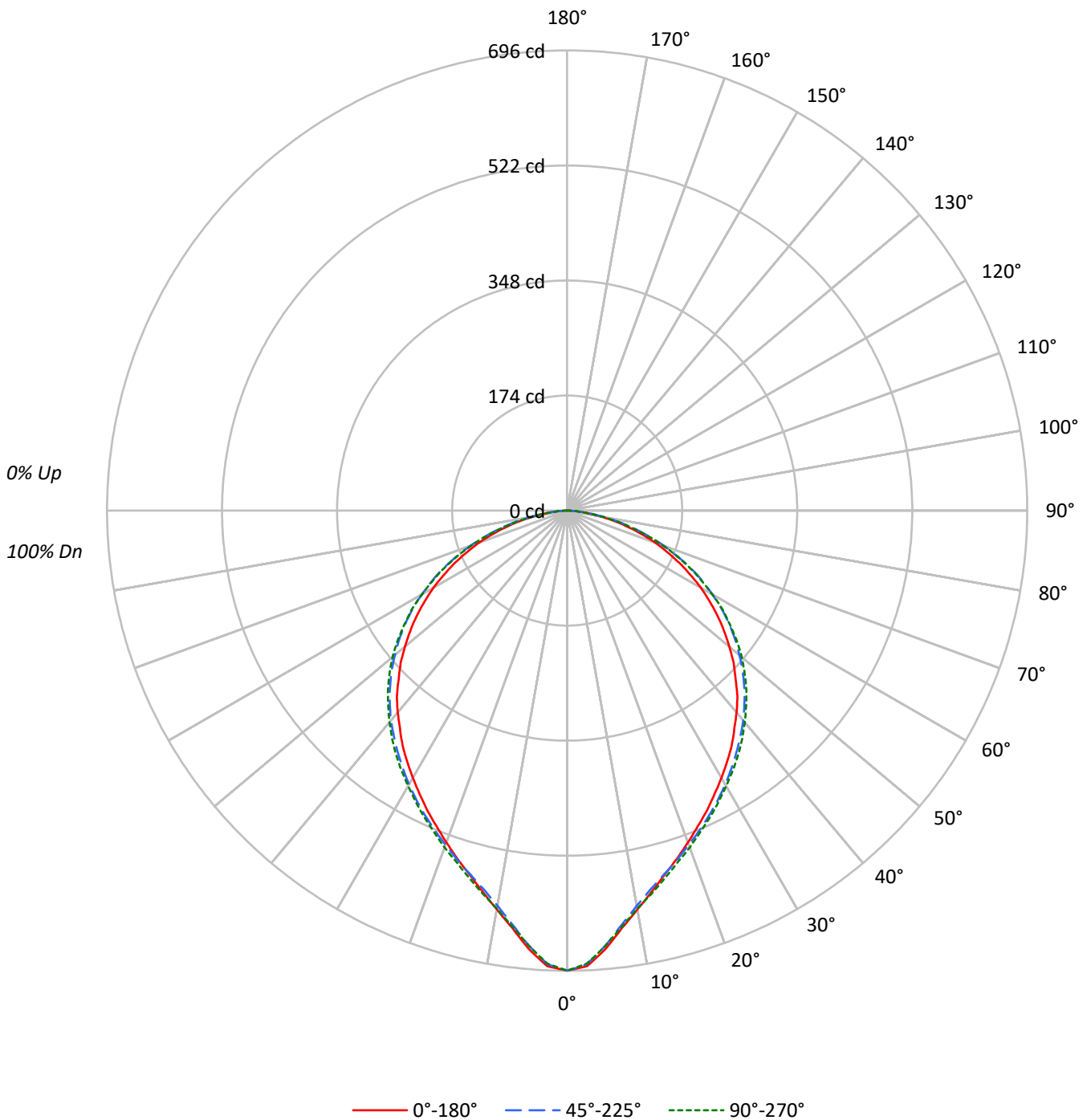
Lumens per Lamp: N/A  
Luminaire Lumens: 1616.1 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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°	3745	3745	3745
5°	3595	3570	3570
10°	3346	3316	3341
15°	3175	3169	3200
20°	3059	3081	3105
25°	2971	3020	3037
30°	2900	2971	2989
35°	2850	2934	2963
40°	2800	2913	2937
45°	2742	2885	2919
50°	2681	2848	2887
55°	2607	2807	2819
60°	2513	2730	2724
65°	2383	2626	2608
70°	2223	2448	2419
75°	1963	2169	2148
80°	1596	1767	1680
85°	1105	1130	1087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.5	3.8
10°-20°	161.0	10.0
20°-30°	234.2	14.5
30°-40°	278.7	17.2
40°-50°	289.3	17.9
50°-60°	262.1	16.2
60°-70°	197.8	12.2
70°-80°	107.8	6.7
80°-90°	23.7	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°	456.7	28.3
0°-40°	735.4	45.5
0°-60°	1286.8	79.6
0°-90°	1616.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1616.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	666	664	661	660	661	62
15°	570	568	569	573	574	161
25°	500	504	508	513	512	231
35°	434	439	446	453	451	271
45°	360	367	379	383	384	278
55°	278	284	299	301	300	248
65°	187	192	206	206	205	185
75°	94	98	104	105	103	101
85°	18	18	18	18	18	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.8	695.8	695.8	695.8	695.8
2.5°	689.7	689.0	686.7	685.8	685.7
5°	665.5	663.9	660.8	660.5	660.8
7.5°	636.6	634.9	631.8	633.0	634.6
10°	612.3	608.0	606.7	608.5	611.4
12.5°	590.6	587.1	586.0	590.6	592.7
15°	569.9	568.5	568.8	572.7	574.4
17.5°	552.0	551.1	553.4	556.3	557.2
20°	534.1	535.8	537.9	541.0	542.1
22.5°	516.5	519.8	523.3	527.5	526.1
25°	500.3	504.5	508.5	512.7	511.5
27.5°	483.1	488.0	493.6	498.1	496.3
30°	466.6	472.7	478.1	483.7	481.0
32.5°	450.3	456.0	462.4	469.2	466.3
35°	433.8	439.0	446.5	453.2	451.0
37.5°	415.5	421.9	430.4	436.4	434.8
40°	398.5	404.4	414.6	418.5	418.1
42.5°	381.3	386.1	396.9	401.2	400.6
45°	360.2	366.7	379.0	383.2	383.5
47.5°	341.6	347.0	360.2	363.5	364.2
50°	320.2	327.0	340.2	344.2	344.8
52.5°	299.2	306.5	320.1	322.8	323.4
55°	277.8	284.4	299.2	301.3	300.4
57.5°	255.4	263.4	277.0	278.0	278.9
60°	233.5	240.4	253.6	255.0	253.1
62.5°	209.7	216.8	230.4	230.7	229.1
65°	187.1	192.5	206.2	205.8	204.8
67.5°	163.4	170.0	180.1	180.5	179.6
70°	141.3	145.9	155.6	155.8	153.7
72.5°	117.5	122.4	130.2	129.2	128.7
75°	94.4	98.2	104.3	105.0	103.3
77.5°	73.2	76.0	80.5	80.0	78.1
80°	51.5	53.7	57.0	56.3	54.2
82.5°	32.9	34.3	36.3	35.5	34.6
85°	17.9	18.1	18.3	18.1	17.6
87.5°	6.6	6.8	6.8	6.6	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)