

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: P489766

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-20-120-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: P489766  
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-24-4-INS-P12125-LD4-1LO-20-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

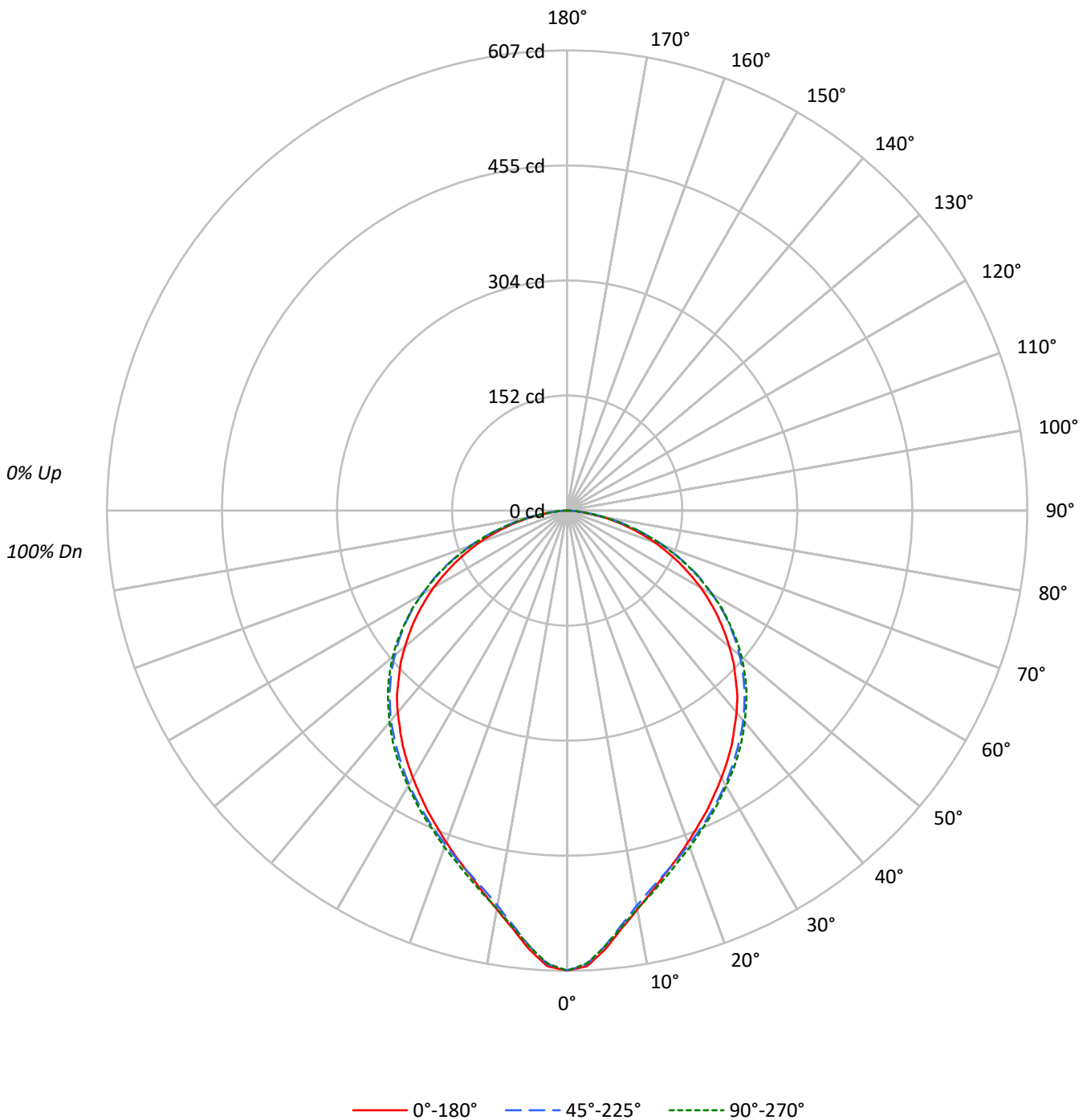
Lumens per Lamp: N/A  
Luminaire Lumens: 1409.2 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	816	816	816
5°	784	778	778
10°	729	723	728
15°	692	691	698
20°	667	672	677
25°	648	658	662
30°	632	648	652
35°	621	639	646
40°	610	635	640
45°	598	629	636
50°	584	621	629
55°	568	612	615
60°	548	595	594
65°	519	572	569
70°	485	534	527
75°	428	473	468
80°	348	385	366
85°	241	245	236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	3.8
10°-20°	140.4	10.0
20°-30°	204.2	14.5
30°-40°	243.0	17.2
40°-50°	252.3	17.9
50°-60°	228.6	16.2
60°-70°	172.5	12.2
70°-80°	94.0	6.7
80°-90°	20.7	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°	398.2	28.3
0°-40°	641.2	45.5
0°-60°	1122.1	79.6
0°-90°	1409.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	580	579	576	576	576	54
15°	497	496	496	499	501	140
25°	436	440	443	447	446	201
35°	378	383	389	395	393	236
45°	314	320	330	334	334	243
55°	242	248	261	263	262	216
65°	163	168	180	180	179	161
75°	82	86	91	92	90	88
85°	16	16	16	16	15	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.7	606.7	606.7	606.7	606.7
2.5°	601.4	600.8	598.8	598.0	597.9
5°	580.3	578.9	576.2	575.9	576.2
7.5°	555.1	553.6	550.9	552.0	553.3
10°	533.9	530.1	529.1	530.6	533.2
12.5°	515.0	511.9	511.0	515.0	516.8
15°	496.9	495.7	496.0	499.4	500.9
17.5°	481.3	480.6	482.5	485.1	485.9
20°	465.7	467.2	469.0	471.8	472.7
22.5°	450.4	453.3	456.3	459.9	458.7
25°	436.3	439.9	443.4	447.1	446.0
27.5°	421.3	425.5	430.4	434.3	432.8
30°	406.9	412.2	416.9	421.7	419.5
32.5°	392.6	397.6	403.2	409.2	406.6
35°	378.2	382.8	389.3	395.2	393.2
37.5°	362.3	367.9	375.3	380.5	379.1
40°	347.5	352.6	361.6	364.9	364.6
42.5°	332.4	336.7	346.1	349.9	349.3
45°	314.1	319.7	330.5	334.1	334.4
47.5°	297.9	302.6	314.1	317.0	317.6
50°	279.2	285.2	296.7	300.2	300.6
52.5°	260.9	267.3	279.1	281.5	282.0
55°	242.2	248.0	260.9	262.7	262.0
57.5°	222.7	229.7	241.5	242.4	243.2
60°	203.6	209.7	221.2	222.4	220.7
62.5°	182.8	189.0	200.9	201.2	199.8
65°	163.1	167.8	179.8	179.5	178.6
67.5°	142.5	148.3	157.1	157.4	156.6
70°	123.2	127.2	135.7	135.8	134.0
72.5°	102.5	106.7	113.5	112.6	112.2
75°	82.3	85.7	91.0	91.6	90.0
77.5°	63.8	66.2	70.2	69.7	68.1
80°	44.9	46.8	49.7	49.1	47.3
82.5°	28.6	29.9	31.7	30.9	30.2
85°	15.6	15.8	15.9	15.8	15.3
87.5°	5.8	5.9	5.9	5.8	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)