

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: P489406

Luminaire Tested: **CLM-24-4-INS-A12125-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: P489406
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-24-4-INS-A12125-LD4-1LO-20-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

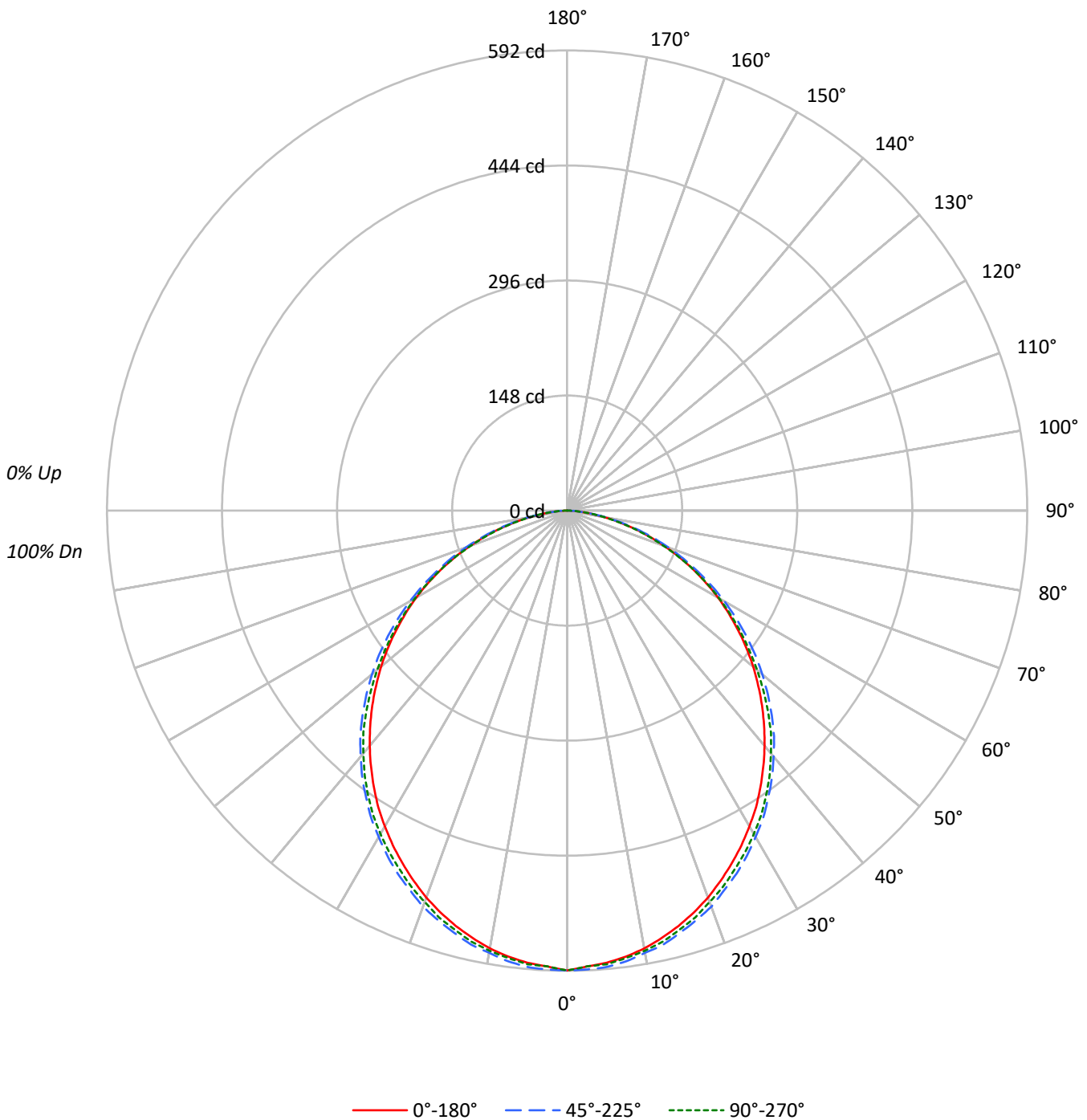
Lumens per Lamp: N/A
Luminaire Lumens: 1555.4 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	796	796	796
5°	789	796	791
10°	781	789	786
15°	771	783	778
20°	758	776	767
25°	744	765	757
30°	729	753	747
35°	712	740	734
40°	694	726	716
45°	674	708	695
50°	654	686	668
55°	630	660	639
60°	603	629	609
65°	569	591	569
70°	523	544	517
75°	461	481	454
80°	374	391	370
85°	261	278	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	3.6
10°-20°	157.9	10.2
20°-30°	235.5	15.1
30°-40°	279.1	17.9
40°-50°	282.4	18.2
50°-60°	246.6	15.9
60°-70°	180.2	11.6
70°-80°	95.9	6.2
80°-90°	22.2	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
0°-30°	449.1	28.9
0°-40°	728.2	46.8
0°-60°	1257.1	80.8
0°-90°	1555.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	584	585	589	591	586	55
15°	553	557	562	566	558	156
25°	501	507	516	517	510	231
35°	434	440	451	454	447	271
45°	354	361	372	373	365	273
55°	269	274	281	277	273	240
65°	179	182	186	182	179	177
75°	89	91	93	89	87	94
85°	17	17	18	18	18	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	591.6	591.6	591.6	591.6	591.6
2.5°	587.0	588.9	590.9	591.7	586.9
5°	583.9	585.0	589.4	590.8	585.8
7.5°	578.9	580.5	584.8	585.4	580.6
10°	572.0	574.9	577.7	580.8	575.0
12.5°	563.1	567.1	572.0	572.5	568.1
15°	553.2	556.9	562.2	565.5	558.2
17.5°	542.1	545.7	552.5	553.1	548.7
20°	529.7	534.2	542.3	543.7	535.8
22.5°	515.7	521.7	528.4	529.8	523.9
25°	500.9	507.1	515.5	517.4	509.6
27.5°	485.5	491.5	500.9	502.2	495.6
30°	469.0	474.6	484.9	487.2	480.5
32.5°	452.3	457.8	469.3	471.2	464.6
35°	433.6	440.4	450.8	454.0	446.6
37.5°	414.7	421.2	433.1	435.9	428.0
40°	395.0	401.5	413.2	415.5	407.9
42.5°	374.9	381.4	393.9	394.2	388.0
45°	354.4	360.7	372.2	372.6	365.2
47.5°	333.5	339.9	350.2	349.1	342.2
50°	312.5	318.5	327.6	325.2	319.0
52.5°	290.6	296.5	305.1	301.2	295.4
55°	268.7	274.1	281.3	277.2	272.6
57.5°	246.6	252.0	257.5	253.4	249.5
60°	224.2	229.1	233.6	229.4	226.3
62.5°	201.6	205.7	209.6	205.6	202.7
65°	178.6	182.3	185.5	181.8	178.8
67.5°	155.8	158.9	161.9	158.0	154.9
70°	133.0	135.7	138.4	134.4	131.5
72.5°	110.5	112.9	115.3	111.4	108.9
75°	88.6	90.7	92.6	89.3	87.3
77.5°	67.7	69.5	70.8	68.7	66.8
80°	48.3	49.6	50.4	49.6	47.8
82.5°	31.1	32.0	32.4	32.4	31.2
85°	16.9	17.2	18.0	18.2	17.6
87.5°	6.5	7.0	7.2	7.7	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)