

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: P488366

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-30-120-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: P488366
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-12-2-INS-A12125-LD4-2LO-30-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

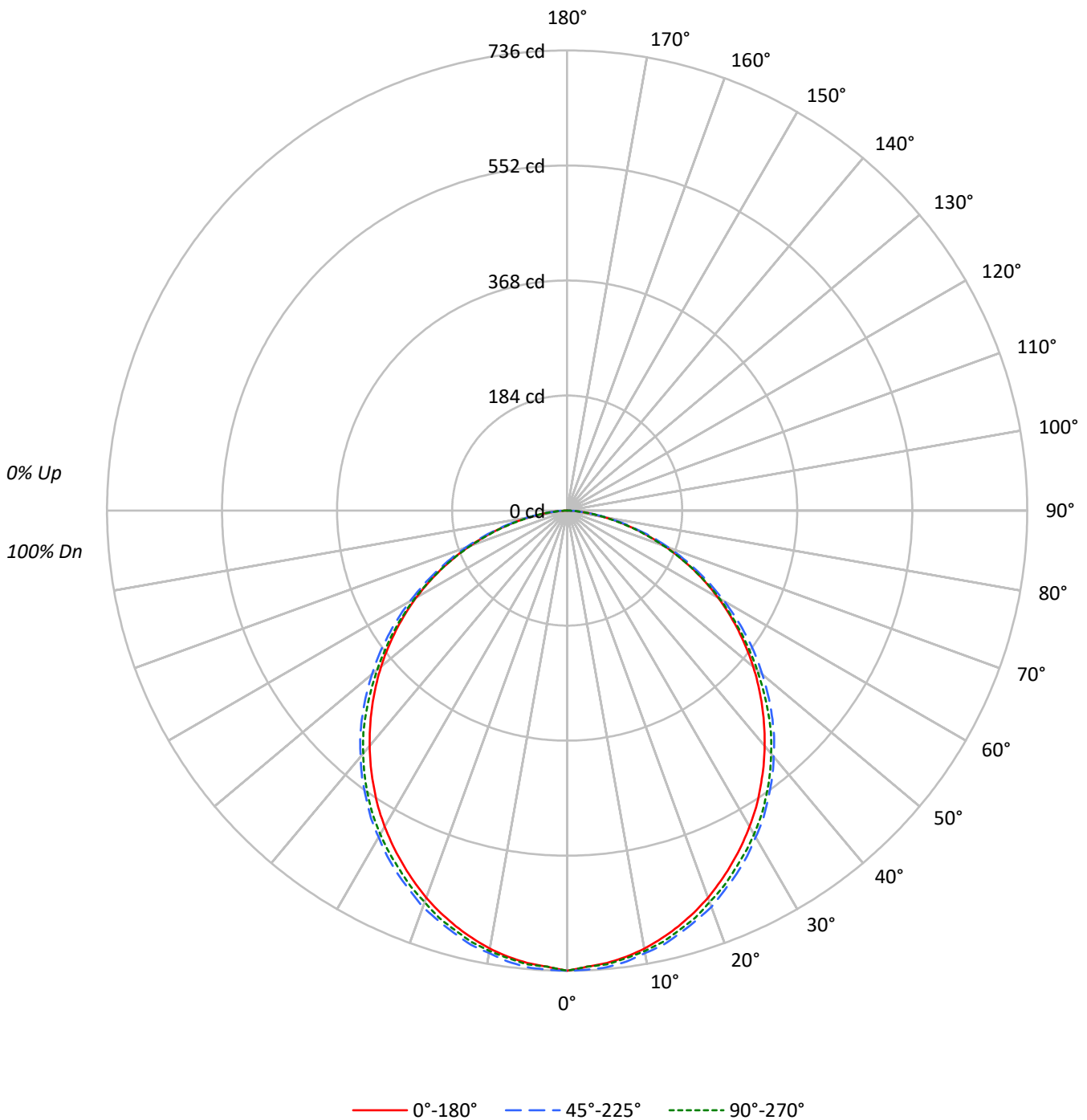
Lumens per Lamp: N/A
Luminaire Lumens: 1934.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3961	3961	3961
5°	3924	3961	3937
10°	3888	3928	3909
15°	3835	3896	3869
20°	3774	3864	3817
25°	3701	3808	3764
30°	3626	3749	3714
35°	3544	3685	3650
40°	3452	3611	3566
45°	3355	3525	3458
50°	3255	3412	3322
55°	3136	3283	3183
60°	3003	3127	3031
65°	2830	2938	2832
70°	2604	2708	2574
75°	2294	2396	2258
80°	1863	1943	1841
85°	1297	1383	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.6
10°-20°	196.4	10.2
20°-30°	293.0	15.1
30°-40°	347.1	17.9
40°-50°	351.3	18.2
50°-60°	306.8	15.9
60°-70°	224.2	11.6
70°-80°	119.3	6.2
80°-90°	27.6	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°	558.7	28.9
0°-40°	905.8	46.8
0°-60°	1563.9	80.8
0°-90°	1934.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	726	728	733	735	729	69
15°	688	693	699	704	694	194
25°	623	631	641	644	634	287
35°	539	548	561	565	556	337
45°	441	449	463	463	454	340
55°	334	341	350	345	339	299
65°	222	227	231	226	222	220
75°	110	113	115	111	109	117
85°	21	21	22	23	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.0	736.0	736.0	736.0	736.0
2.5°	730.2	732.6	735.0	736.1	730.1
5°	726.4	727.8	733.2	734.9	728.7
7.5°	720.1	722.2	727.5	728.2	722.2
10°	711.5	715.2	718.7	722.5	715.3
12.5°	700.5	705.5	711.5	712.2	706.7
15°	688.2	692.8	699.3	703.5	694.4
17.5°	674.4	678.8	687.3	688.0	682.5
20°	659.0	664.5	674.6	676.4	666.5
22.5°	641.5	648.9	657.4	659.1	651.8
25°	623.2	630.8	641.3	643.6	633.9
27.5°	604.0	611.4	623.1	624.8	616.6
30°	583.5	590.4	603.2	606.1	597.7
32.5°	562.6	569.5	583.8	586.1	578.0
35°	539.4	547.9	560.8	564.7	555.6
37.5°	515.8	524.0	538.7	542.3	532.5
40°	491.4	499.5	514.0	516.9	507.5
42.5°	466.4	474.5	490.0	490.4	482.6
45°	440.8	448.7	463.1	463.4	454.3
47.5°	414.9	422.8	435.7	434.2	425.6
50°	388.7	396.2	407.5	404.6	396.8
52.5°	361.5	368.8	379.5	374.7	367.4
55°	334.2	341.0	349.9	344.8	339.2
57.5°	306.7	313.5	320.4	315.2	310.3
60°	279.0	284.9	290.5	285.3	281.6
62.5°	250.7	255.9	260.7	255.7	252.2
65°	222.2	226.7	230.7	226.1	222.4
67.5°	193.8	197.7	201.4	196.6	192.7
70°	165.5	168.8	172.1	167.2	163.6
72.5°	137.5	140.4	143.4	138.6	135.5
75°	110.3	112.8	115.2	111.0	108.6
77.5°	84.3	86.4	88.1	85.4	83.0
80°	60.1	61.7	62.7	61.7	59.4
82.5°	38.6	39.8	40.3	40.3	38.8
85°	21.0	21.4	22.4	22.6	21.9
87.5°	8.1	8.7	8.9	9.6	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)