

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: P488323

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-1HI-40-120-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: P488323
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-LD4-1HI-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

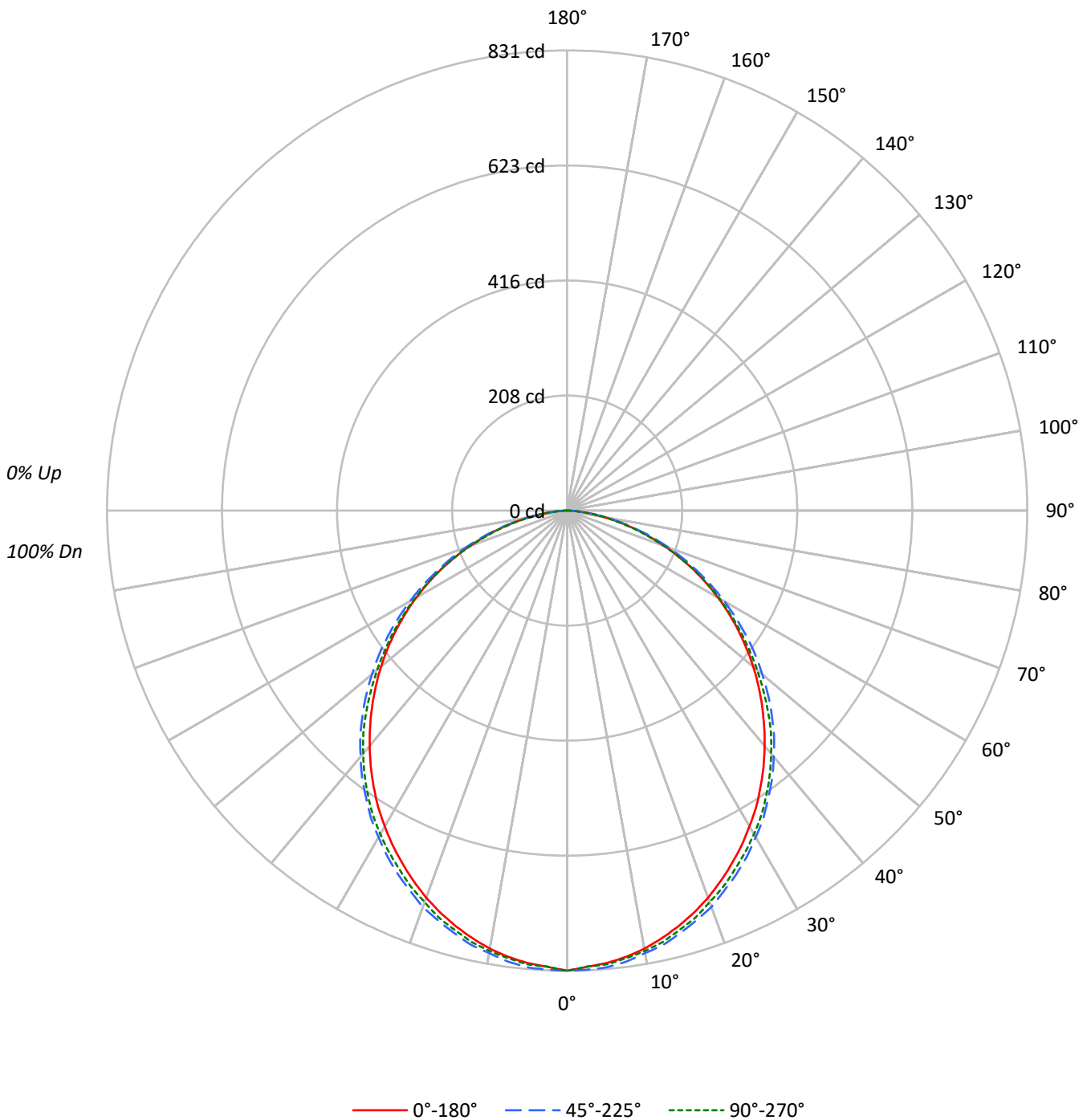
Lumens per Lamp: N/A
Luminaire Lumens: 2184.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4472	4472	4472
5°	4431	4472	4445
10°	4390	4435	4414
15°	4329	4400	4368
20°	4261	4363	4310
25°	4178	4299	4250
30°	4094	4233	4194
35°	4002	4160	4121
40°	3898	4077	4026
45°	3788	3979	3905
50°	3674	3852	3751
55°	3541	3706	3593
60°	3391	3531	3422
65°	3195	3317	3198
70°	2939	3059	2908
75°	2589	2705	2549
80°	2104	2194	2080
85°	1463	1562	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	3.6
10°-20°	221.8	10.2
20°-30°	330.8	15.1
30°-40°	392.0	17.9
40°-50°	396.6	18.2
50°-60°	346.4	15.9
60°-70°	253.1	11.6
70°-80°	134.7	6.2
80°-90°	31.1	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°	630.8	28.9
0°-40°	1022.7	46.8
0°-60°	1765.7	80.8
0°-90°	2184.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	820	822	828	830	823	78
15°	777	782	790	794	784	219
25°	704	712	724	727	716	324
35°	609	619	633	638	627	381
45°	498	506	523	523	513	384
55°	377	385	395	389	383	337
65°	251	256	260	255	251	248
75°	124	127	130	125	123	132
85°	24	24	25	26	25	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.9	830.9	830.9	830.9	830.9
2.5°	824.5	827.1	829.9	831.1	824.4
5°	820.1	821.7	827.8	829.7	822.7
7.5°	813.0	815.4	821.3	822.2	815.4
10°	803.3	807.5	811.5	815.8	807.6
12.5°	790.9	796.6	803.3	804.1	797.9
15°	777.0	782.2	789.6	794.3	784.0
17.5°	761.4	766.4	776.0	776.8	770.6
20°	744.0	750.3	761.7	763.7	752.5
22.5°	724.3	732.7	742.2	744.1	735.9
25°	703.6	712.3	724.0	726.7	715.7
27.5°	681.9	690.3	703.5	705.4	696.1
30°	658.7	666.5	681.1	684.3	674.8
32.5°	635.2	643.0	659.1	661.8	652.6
35°	609.1	618.6	633.2	637.6	627.3
37.5°	582.4	591.7	608.3	612.3	601.2
40°	554.8	563.9	580.3	583.6	573.0
42.5°	526.5	535.7	553.2	553.7	544.9
45°	497.7	506.5	522.8	523.3	513.0
47.5°	468.5	477.4	491.9	490.3	480.6
50°	438.8	447.3	460.1	456.8	448.0
52.5°	408.2	416.4	428.5	423.1	414.9
55°	377.4	385.0	395.0	389.3	382.9
57.5°	346.3	354.0	361.7	355.9	350.4
60°	315.0	321.7	328.0	322.1	317.9
62.5°	283.1	288.9	294.4	288.7	284.7
65°	250.9	256.0	260.5	255.3	251.1
67.5°	218.9	223.2	227.3	222.0	217.6
70°	186.8	190.6	194.4	188.8	184.8
72.5°	155.2	158.5	161.9	156.5	153.0
75°	124.5	127.4	130.1	125.4	122.6
77.5°	95.1	97.6	99.5	96.4	93.8
80°	67.9	69.7	70.8	69.6	67.1
82.5°	43.6	44.9	45.5	45.5	43.8
85°	23.7	24.2	25.3	25.5	24.7
87.5°	9.2	9.8	10.0	10.8	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)