

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: P488367

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-30-120-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: P488367
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
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

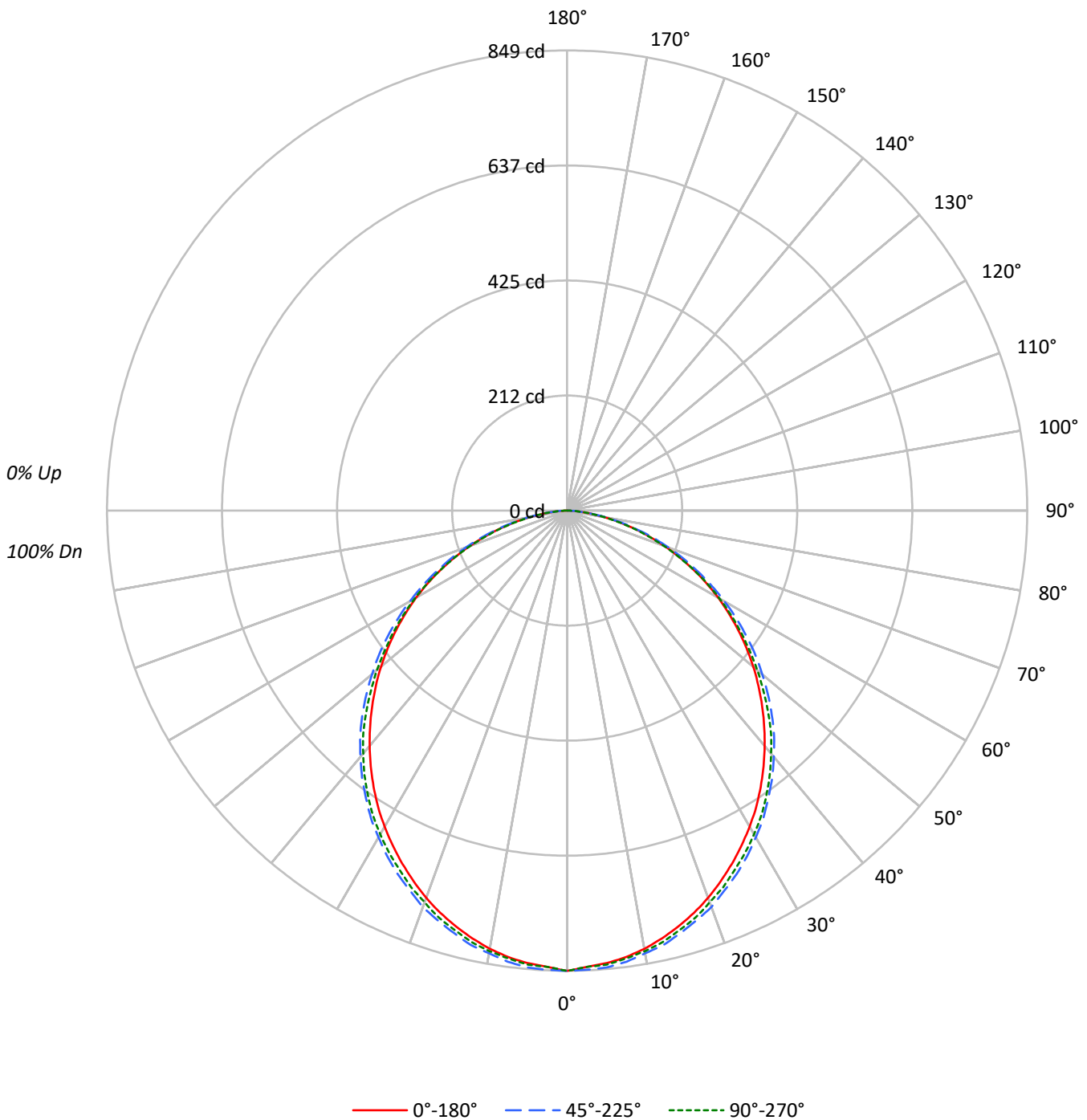
Lumens per Lamp: N/A
Luminaire Lumens: 2232.6 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4570	4570	4570
5°	4528	4571	4542
10°	4487	4532	4510
15°	4425	4496	4464
20°	4355	4458	4404
25°	4270	4394	4343
30°	4184	4325	4286
35°	4089	4252	4212
40°	3984	4167	4114
45°	3872	4067	3990
50°	3755	3937	3834
55°	3619	3788	3672
60°	3465	3608	3497
65°	3265	3390	3268
70°	3004	3125	2971
75°	2645	2766	2606
80°	2151	2244	2126
85°	1494	1593	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.6
10°-20°	226.6	10.2
20°-30°	338.0	15.1
30°-40°	400.6	17.9
40°-50°	405.3	18.2
50°-60°	354.0	15.9
60°-70°	258.7	11.6
70°-80°	137.6	6.2
80°-90°	31.8	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°	644.6	28.9
0°-40°	1045.2	46.8
0°-60°	1804.5	80.8
0°-90°	2232.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	838	840	846	848	841	79
15°	794	799	807	812	801	224
25°	719	728	740	743	731	331
35°	622	632	647	652	641	389
45°	509	518	534	535	524	392
55°	386	394	404	398	391	345
65°	256	262	266	261	257	254
75°	127	130	133	128	125	135
85°	24	25	26	26	25	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.2	849.2	849.2	849.2	849.2
2.5°	842.6	845.3	848.1	849.4	842.5
5°	838.1	839.7	846.0	848.0	840.8
7.5°	830.9	833.3	839.4	840.3	833.4
10°	821.0	825.2	829.3	833.7	825.3
12.5°	808.3	814.1	821.0	821.8	815.4
15°	794.1	799.4	806.9	811.8	801.2
17.5°	778.2	783.3	793.0	793.9	787.5
20°	760.4	766.7	778.4	780.5	769.0
22.5°	740.2	748.8	758.5	760.5	752.1
25°	719.1	727.9	739.9	742.7	731.4
27.5°	696.9	705.4	719.0	720.9	711.4
30°	673.2	681.2	696.0	699.3	689.7
32.5°	649.2	657.1	673.6	676.3	666.9
35°	622.4	632.2	647.1	651.6	641.1
37.5°	595.2	604.7	621.6	625.7	614.4
40°	567.0	576.3	593.1	596.4	585.5
42.5°	538.1	547.5	565.4	565.9	556.9
45°	508.7	517.7	534.3	534.8	524.2
47.5°	478.7	487.9	502.7	501.0	491.1
50°	448.5	457.2	470.2	466.8	457.9
52.5°	417.2	425.6	437.9	432.4	424.0
55°	385.7	393.5	403.7	397.9	391.3
57.5°	353.9	361.8	369.7	363.7	358.1
60°	321.9	328.8	335.2	329.2	324.9
62.5°	289.3	295.2	300.8	295.1	291.0
65°	256.4	261.6	266.2	260.9	256.6
67.5°	223.7	228.1	232.3	226.9	222.3
70°	190.9	194.7	198.6	193.0	188.8
72.5°	158.6	162.0	165.5	160.0	156.3
75°	127.2	130.1	133.0	128.1	125.3
77.5°	97.2	99.7	101.7	98.6	95.8
80°	69.4	71.2	72.4	71.1	68.6
82.5°	44.6	45.9	46.5	46.5	44.8
85°	24.2	24.7	25.8	26.1	25.2
87.5°	9.4	10.0	10.3	11.1	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)