

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: P488373

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-50-120-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: P488373
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-50-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

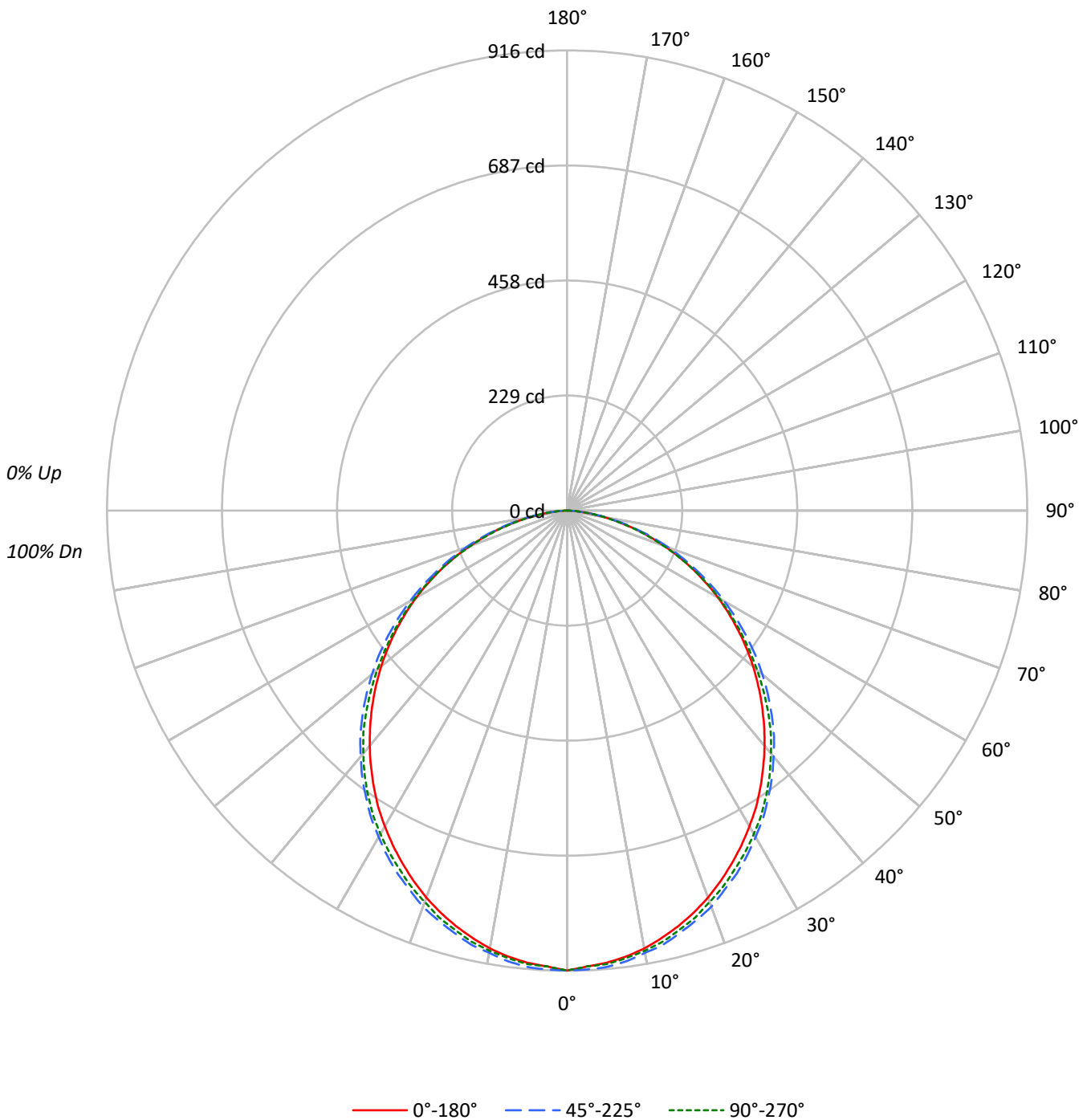
Lumens per Lamp: N/A
Luminaire Lumens: 2406.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4927	4927	4927
5°	4881	4927	4897
10°	4837	4886	4862
15°	4769	4847	4813
20°	4695	4806	4748
25°	4603	4737	4682
30°	4510	4663	4621
35°	4409	4583	4541
40°	4294	4491	4435
45°	4173	4384	4301
50°	4048	4244	4133
55°	3902	4084	3959
60°	3735	3890	3770
65°	3520	3655	3522
70°	3238	3369	3202
75°	2853	2982	2809
80°	2318	2417	2290
85°	1612	1723	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.6
10°-20°	244.3	10.2
20°-30°	364.4	15.1
30°-40°	431.8	17.9
40°-50°	436.9	18.2
50°-60°	381.6	15.9
60°-70°	278.9	11.6
70°-80°	148.4	6.2
80°-90°	34.3	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°	694.9	28.9
0°-40°	1126.8	46.8
0°-60°	1945.3	80.8
0°-90°	2406.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	904	905	912	914	906	86
15°	856	862	870	875	864	241
25°	775	785	798	801	788	357
35°	671	682	698	702	691	420
45°	548	558	576	576	565	423
55°	416	424	435	429	422	372
65°	276	282	287	281	277	274
75°	137	140	143	138	135	146
85°	26	27	28	28	27	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.5	915.5	915.5	915.5	915.5
2.5°	908.3	911.3	914.3	915.7	908.2
5°	903.5	905.3	912.0	914.1	906.4
7.5°	895.7	898.3	904.9	905.8	898.4
10°	885.0	889.6	894.0	898.8	889.7
12.5°	871.4	877.6	885.0	885.9	879.0
15°	856.0	861.8	869.9	875.1	863.8
17.5°	838.9	844.4	854.9	855.8	849.0
20°	819.7	826.6	839.2	841.4	829.0
22.5°	798.0	807.2	817.7	819.8	810.7
25°	775.2	784.7	797.7	800.6	788.5
27.5°	751.3	760.5	775.1	777.2	767.0
30°	725.7	734.3	750.4	753.9	743.5
32.5°	699.8	708.4	726.1	729.1	719.0
35°	671.0	681.5	697.6	702.5	691.1
37.5°	641.6	651.8	670.1	674.5	662.3
40°	611.2	621.3	639.3	643.0	631.2
42.5°	580.1	590.2	609.5	610.1	600.3
45°	548.3	558.1	576.0	576.5	565.1
47.5°	516.1	525.9	542.0	540.1	529.5
50°	483.5	492.8	506.9	503.2	493.6
52.5°	449.7	458.8	472.0	466.1	457.1
55°	415.8	424.2	435.2	428.9	421.9
57.5°	381.5	390.0	398.5	392.1	386.0
60°	347.0	354.4	361.4	354.9	350.2
62.5°	311.9	318.3	324.3	318.1	313.7
65°	276.4	282.0	287.0	281.3	276.6
67.5°	241.1	245.9	250.5	244.6	239.7
70°	205.8	209.9	214.1	208.0	203.5
72.5°	171.0	174.6	178.4	172.4	168.5
75°	137.2	140.3	143.4	138.1	135.1
77.5°	104.8	107.5	109.6	106.3	103.3
80°	74.8	76.8	78.0	76.7	73.9
82.5°	48.1	49.5	50.2	50.1	48.3
85°	26.1	26.6	27.9	28.1	27.2
87.5°	10.1	10.8	11.1	11.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)