

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: P488372

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2LO-50-120-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: P488372
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-90
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

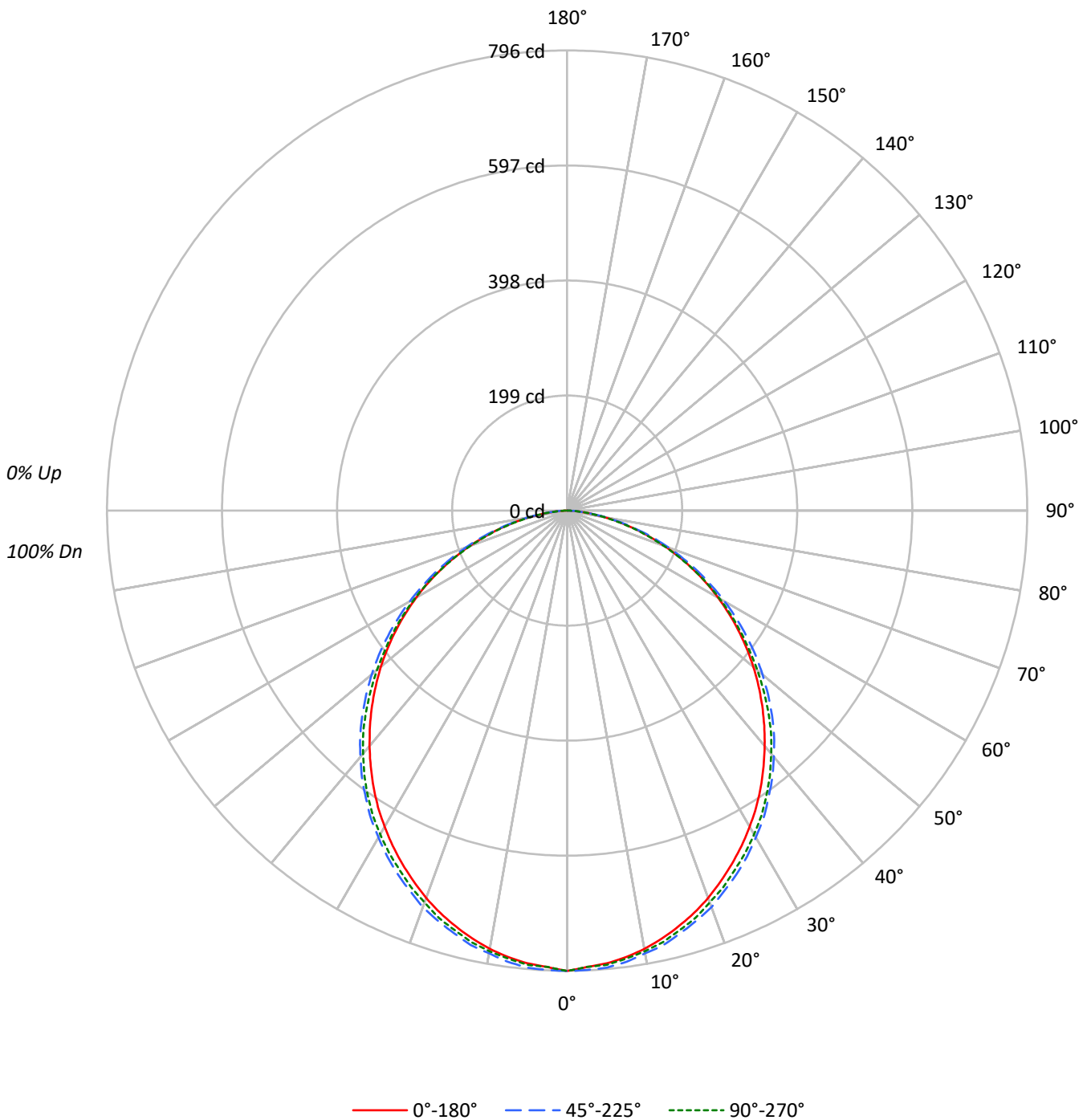
Lumens per Lamp: N/A
Luminaire Lumens: 2093.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4286	4286	4286
5°	4247	4287	4260
10°	4208	4251	4230
15°	4149	4217	4187
20°	4084	4182	4131
25°	4005	4121	4074
30°	3924	4057	4020
35°	3836	3987	3951
40°	3736	3908	3858
45°	3631	3814	3742
50°	3522	3692	3595
55°	3394	3552	3444
60°	3250	3384	3280
65°	3063	3180	3064
70°	2818	2932	2787
75°	2481	2593	2443
80°	2018	2104	1993
85°	1402	1494	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.6
10°-20°	212.6	10.2
20°-30°	317.0	15.1
30°-40°	375.7	17.9
40°-50°	380.1	18.2
50°-60°	332.0	15.9
60°-70°	242.6	11.6
70°-80°	129.1	6.2
80°-90°	29.8	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°	604.6	28.9
0°-40°	980.3	46.8
0°-60°	1692.4	80.8
0°-90°	2093.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	786	788	794	795	789	75
15°	745	750	757	761	752	210
25°	674	683	694	696	686	311
35°	584	593	607	611	601	365
45°	477	486	501	502	492	368
55°	362	369	379	373	367	323
65°	240	245	250	245	241	238
75°	119	122	125	120	118	127
85°	23	23	24	24	24	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.4	796.4	796.4	796.4	796.4
2.5°	790.2	792.8	795.4	796.6	790.1
5°	786.1	787.6	793.5	795.3	788.6
7.5°	779.3	781.5	787.2	788.1	781.6
10°	770.0	774.0	777.8	781.9	774.0
12.5°	758.1	763.5	770.0	770.7	764.7
15°	744.7	749.7	756.8	761.3	751.5
17.5°	729.8	734.6	743.8	744.6	738.6
20°	713.1	719.1	730.1	732.0	721.3
22.5°	694.2	702.3	711.4	713.2	705.3
25°	674.4	682.7	694.0	696.5	686.0
27.5°	653.6	661.6	674.3	676.1	667.2
30°	631.4	638.9	652.8	655.9	646.8
32.5°	608.8	616.3	631.7	634.3	625.5
35°	583.8	592.9	606.9	611.2	601.3
37.5°	558.2	567.1	583.0	586.8	576.2
40°	531.7	540.5	556.2	559.4	549.2
42.5°	504.7	513.5	530.2	530.7	522.3
45°	477.1	485.5	501.1	501.5	491.7
47.5°	449.0	457.6	471.5	469.9	460.6
50°	420.6	428.8	441.0	437.8	429.4
52.5°	391.3	399.1	410.7	405.5	397.6
55°	361.7	369.0	378.6	373.2	367.0
57.5°	331.9	339.3	346.7	341.1	335.8
60°	301.9	308.4	314.4	308.8	304.7
62.5°	271.3	276.9	282.1	276.7	272.9
65°	240.5	245.4	249.7	244.7	240.6
67.5°	209.8	213.9	217.9	212.8	208.5
70°	179.1	182.6	186.3	181.0	177.1
72.5°	148.8	151.9	155.2	150.0	146.6
75°	119.3	122.1	124.7	120.2	117.5
77.5°	91.2	93.5	95.3	92.4	89.9
80°	65.1	66.8	67.9	66.7	64.3
82.5°	41.8	43.1	43.6	43.6	42.0
85°	22.7	23.2	24.2	24.5	23.6
87.5°	8.8	9.4	9.6	10.4	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)