

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: P488511

Luminaire Tested: **CLM-12-2-INS-P12125-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: P488511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
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-P12125-LD4-2LO-30-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

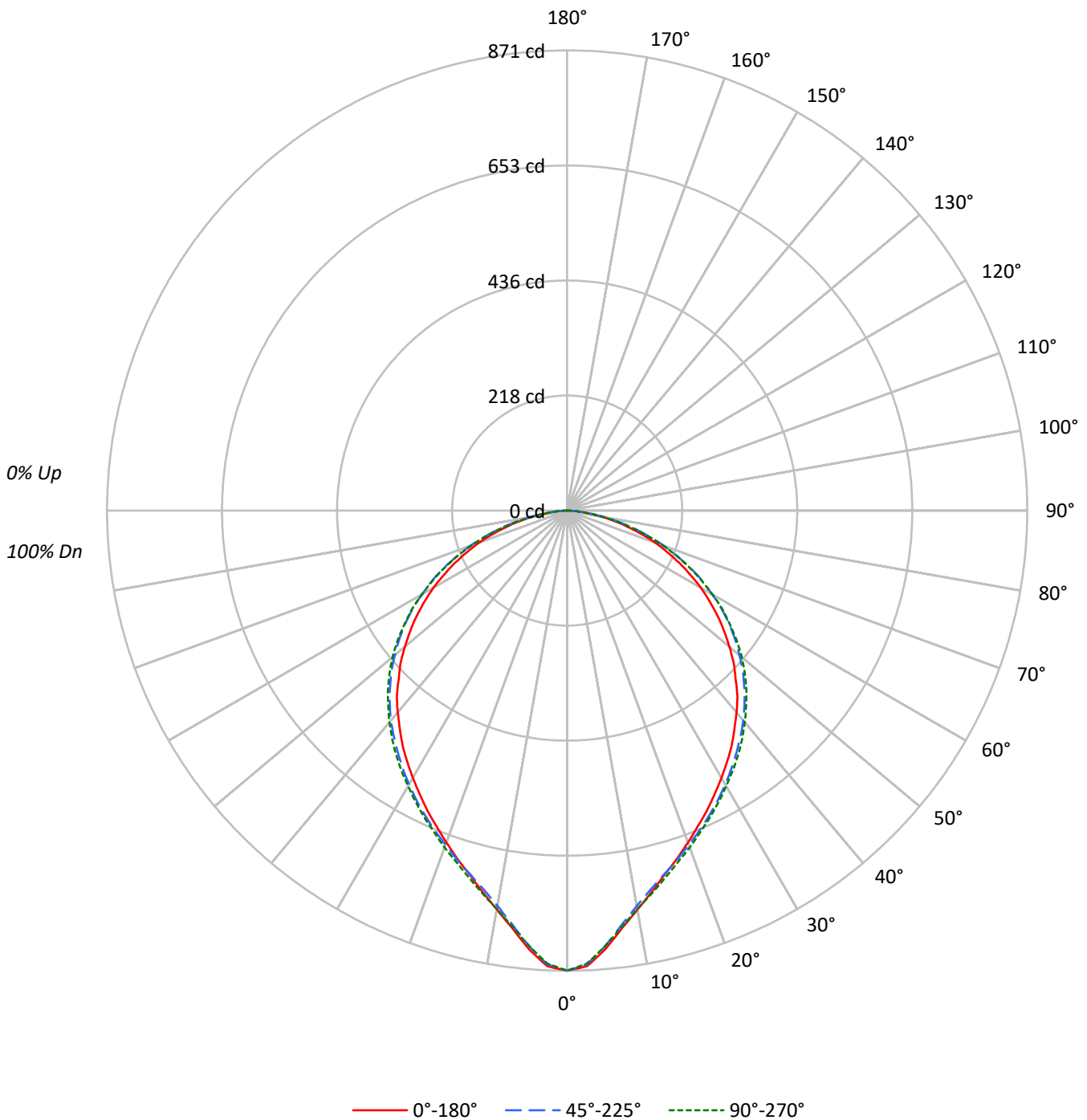
Lumens per Lamp: N/A
Luminaire Lumens: 2022.8 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4687	4687	4687
5°	4500	4468	4468
10°	4188	4150	4182
15°	3974	3967	4006
20°	3829	3856	3886
25°	3719	3780	3802
30°	3629	3719	3742
35°	3567	3671	3709
40°	3504	3646	3677
45°	3432	3611	3653
50°	3356	3566	3613
55°	3263	3514	3528
60°	3145	3418	3410
65°	2981	3287	3264
70°	2784	3065	3028
75°	2458	2716	2689
80°	1996	2213	2104
85°	1383	1408	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.8
10°-20°	201.6	10.0
20°-30°	293.1	14.5
30°-40°	348.8	17.2
40°-50°	362.2	17.9
50°-60°	328.1	16.2
60°-70°	247.6	12.2
70°-80°	134.9	6.7
80°-90°	29.6	1.5
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°	571.6	28.3
0°-40°	920.4	45.5
0°-60°	1610.7	79.6
0°-90°	2022.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	833	831	827	827	827	77
15°	713	712	712	717	719	201
25°	626	632	636	642	640	289
35°	543	549	559	567	564	339
45°	451	459	474	480	480	349
55°	348	356	374	377	376	310
65°	234	241	258	258	256	231
75°	118	123	131	131	129	126
85°	22	23	23	23	22	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.8	870.8	870.8	870.8	870.8
2.5°	863.2	862.4	859.5	858.4	858.2
5°	833.0	831.0	827.1	826.7	827.1
7.5°	796.9	794.7	790.8	792.3	794.3
10°	766.4	761.0	759.4	761.6	765.3
12.5°	739.2	734.8	733.5	739.2	741.8
15°	713.3	711.6	712.0	716.8	719.0
17.5°	690.9	689.8	692.6	696.3	697.4
20°	668.5	670.7	673.3	677.2	678.5
22.5°	646.5	650.6	655.0	660.2	658.5
25°	626.3	631.5	636.5	641.7	640.2
27.5°	604.7	610.8	617.8	623.4	621.3
30°	584.0	591.7	598.4	605.4	602.1
32.5°	563.6	570.8	578.8	587.3	583.6
35°	542.9	549.4	558.8	567.3	564.5
37.5°	520.1	528.1	538.8	546.2	544.2
40°	498.7	506.1	519.0	523.8	523.3
42.5°	477.2	483.3	496.8	502.2	501.4
45°	450.9	458.9	474.4	479.6	480.0
47.5°	427.6	434.3	450.9	455.0	455.9
50°	400.8	409.3	425.9	430.8	431.5
52.5°	374.5	383.6	400.6	404.1	404.7
55°	347.7	356.0	374.5	377.1	376.0
57.5°	319.7	329.7	346.6	347.9	349.0
60°	292.2	300.9	317.5	319.2	316.8
62.5°	262.4	271.3	288.3	288.8	286.8
65°	234.1	240.9	258.1	257.6	256.3
67.5°	204.5	212.8	225.4	225.9	224.8
70°	176.9	182.6	194.8	195.0	192.4
72.5°	147.1	153.2	163.0	161.7	161.0
75°	118.2	122.9	130.6	131.4	129.3
77.5°	91.6	95.1	100.8	100.1	97.7
80°	64.4	67.2	71.4	70.5	67.9
82.5°	41.1	42.9	45.5	44.4	43.3
85°	22.4	22.6	22.8	22.6	22.0
87.5°	8.3	8.5	8.5	8.3	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)