

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: P488509

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2LO-27-120-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: P488509
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-27-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

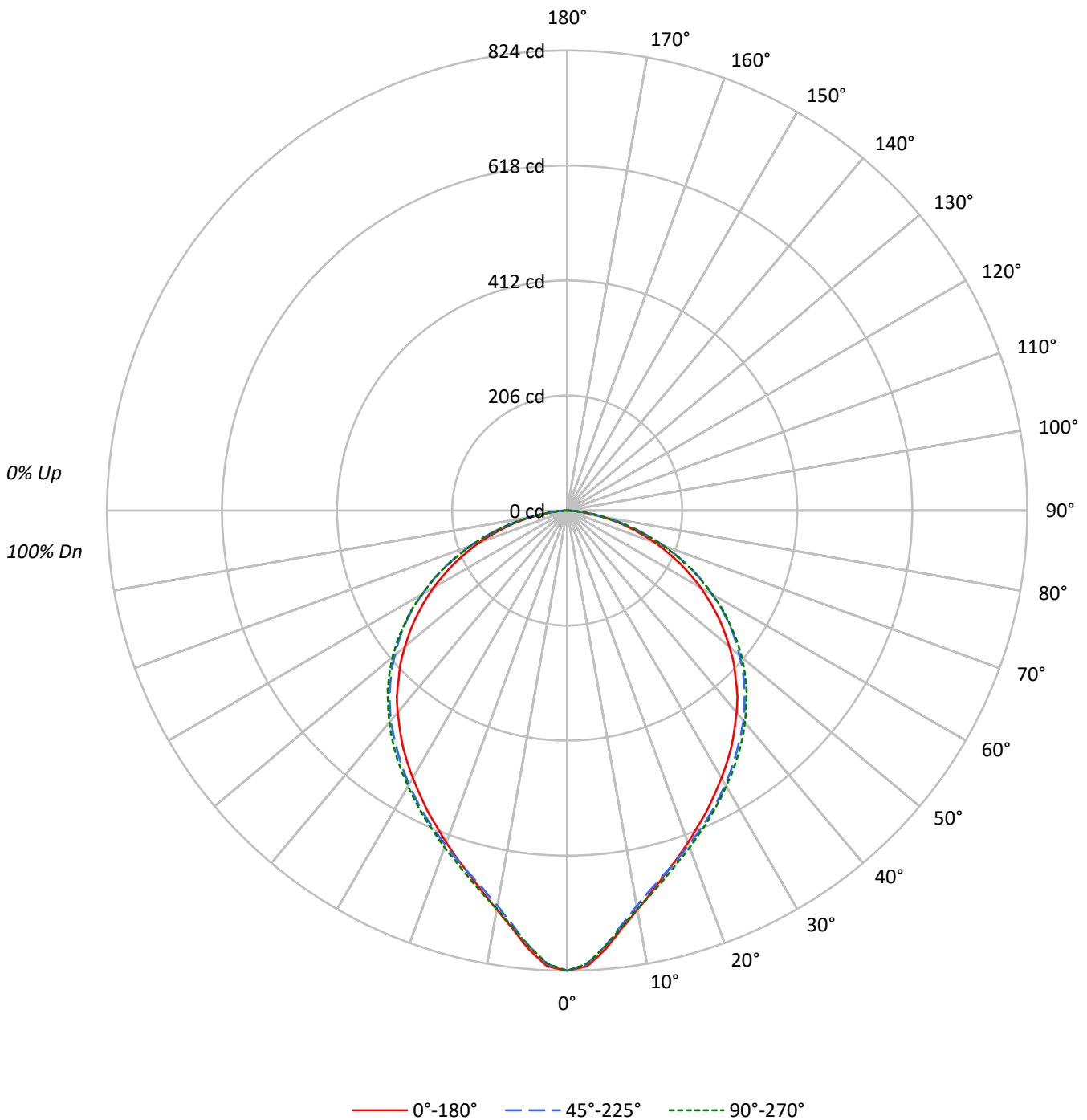
Lumens per Lamp: N/A
Luminaire Lumens: 1914.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P488509

CATALOG NUMBER: CLM-12-2-INS-P12125-LD4-2LO-27-120-EDD

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°	4435	4435	4435
5°	4258	4228	4228
10°	3963	3927	3957
15°	3760	3754	3791
20°	3623	3649	3677
25°	3519	3577	3597
30°	3434	3519	3540
35°	3375	3474	3509
40°	3315	3450	3479
45°	3247	3417	3457
50°	3176	3373	3419
55°	3087	3324	3339
60°	2976	3233	3227
65°	2821	3110	3088
70°	2634	2900	2864
75°	2325	2568	2543
80°	1888	2092	1990
85°	1309	1334	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.8
10°-20°	190.7	10.0
20°-30°	277.3	14.5
30°-40°	330.0	17.2
40°-50°	342.7	17.9
50°-60°	310.4	16.2
60°-70°	234.3	12.2
70°-80°	127.6	6.7
80°-90°	28.0	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°	540.9	28.3
0°-40°	870.9	45.5
0°-60°	1524.0	79.6
0°-90°	1914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	788	786	783	782	783	73
15°	675	673	674	678	680	190
25°	593	598	602	607	606	273
35°	514	520	529	537	534	321
45°	427	434	449	454	454	330
55°	329	337	354	357	356	294
65°	222	228	244	244	242	219
75°	112	116	124	124	122	119
85°	21	21	22	21	21	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.0	824.0	824.0	824.0	824.0
2.5°	816.8	816.0	813.3	812.3	812.1
5°	788.2	786.3	782.6	782.2	782.6
7.5°	754.0	751.9	748.2	749.7	751.5
10°	725.2	720.0	718.6	720.6	724.1
12.5°	699.4	695.3	694.1	699.4	701.9
15°	674.9	673.3	673.7	678.2	680.3
17.5°	653.7	652.7	655.4	658.9	659.9
20°	632.5	634.6	637.1	640.8	642.0
22.5°	611.7	615.6	619.8	624.7	623.1
25°	592.6	597.5	602.3	607.2	605.8
27.5°	572.2	577.9	584.5	589.9	587.8
30°	552.6	559.8	566.2	572.8	569.7
32.5°	533.3	540.1	547.7	555.7	552.2
35°	513.7	519.9	528.8	536.8	534.1
37.5°	492.1	499.7	509.8	516.8	515.0
40°	471.9	478.9	491.1	495.6	495.2
42.5°	451.5	457.3	470.1	475.2	474.4
45°	426.6	434.2	448.9	453.8	454.2
47.5°	404.6	411.0	426.6	430.5	431.4
50°	379.3	387.3	402.9	407.7	408.3
52.5°	354.3	363.0	379.1	382.3	383.0
55°	329.0	336.8	354.3	356.8	355.8
57.5°	302.5	311.9	328.0	329.2	330.3
60°	276.5	284.8	300.4	302.0	299.8
62.5°	248.3	256.8	272.8	273.2	271.4
65°	221.5	227.9	244.2	243.8	242.5
67.5°	193.5	201.4	213.3	213.7	212.7
70°	167.4	172.7	184.3	184.5	182.0
72.5°	139.2	145.0	154.2	153.0	152.4
75°	111.8	116.3	123.5	124.4	122.3
77.5°	86.7	90.0	95.3	94.7	92.4
80°	60.9	63.6	67.5	66.7	64.2
82.5°	38.9	40.6	43.0	42.0	41.0
85°	21.2	21.4	21.6	21.4	20.8
87.5°	7.8	8.0	8.0	7.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)