

Comlight Motion Sensing Lighting Control



Hillerød Installations

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Comlight wins DALI Awards

Comlight won the Best use of Zhaga-D4i category in the first ever DALI Lighting Awards on 27 January 2021. The Zhaga-D4i ecosystem enables smart, future-proof LED luminaires with IoT connectivity, and sensors with wireless communication can easily be added to luminaires providing plug-and play interoperability.

Between Tengs and Bjerkreim in Norway, Comlight has equipped 275 Signify luminaires with Eagle Eye Zhaga motion detection light controllers. The system uses radio communication to pass light-on messages to the next luminaires, providing full light for road users for maximum safety and minimal energy consumption. Furthermore, the solution reduces light pollution and thus minimize negative impacts from artificial lighting.

The jury's comments:

The judges felt this was an excellent example of Zhaga-D4i in practice, with some great benefits include fast installation of the controller; only 1.5 to 2 minutes is required per luminaire, instead of 15 minutes for the pole-mount version. High energy saving is achieved, typically 70% at night even on this district road, and the system also provides statistical and energy data, which is made available to the cloud-based backend system.

Motion Sensing Lighting Control

- Provides full light when and where needed
- Robust radar-based motion detection, that works in all conditions and for pedestrians, cyclists and vehicles
- Well-tested in numerous installations in all weather conditions
- Unique “light-wave” using radio communication between poles
- Autonomous operation, with no single point of failure even in case of break in communication or missing power in part of installation
- Up to 80% dimming down time during night (in some cases 90% or more)
- Twist&lock installation on Zhaga-luminaires, takes just a minute!
- Flexible installation with Eagle Eye 3.0 Pole-mount alternative



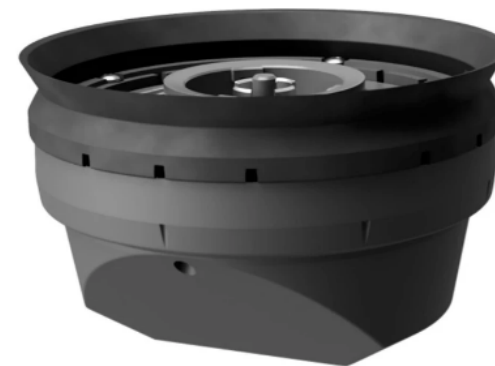
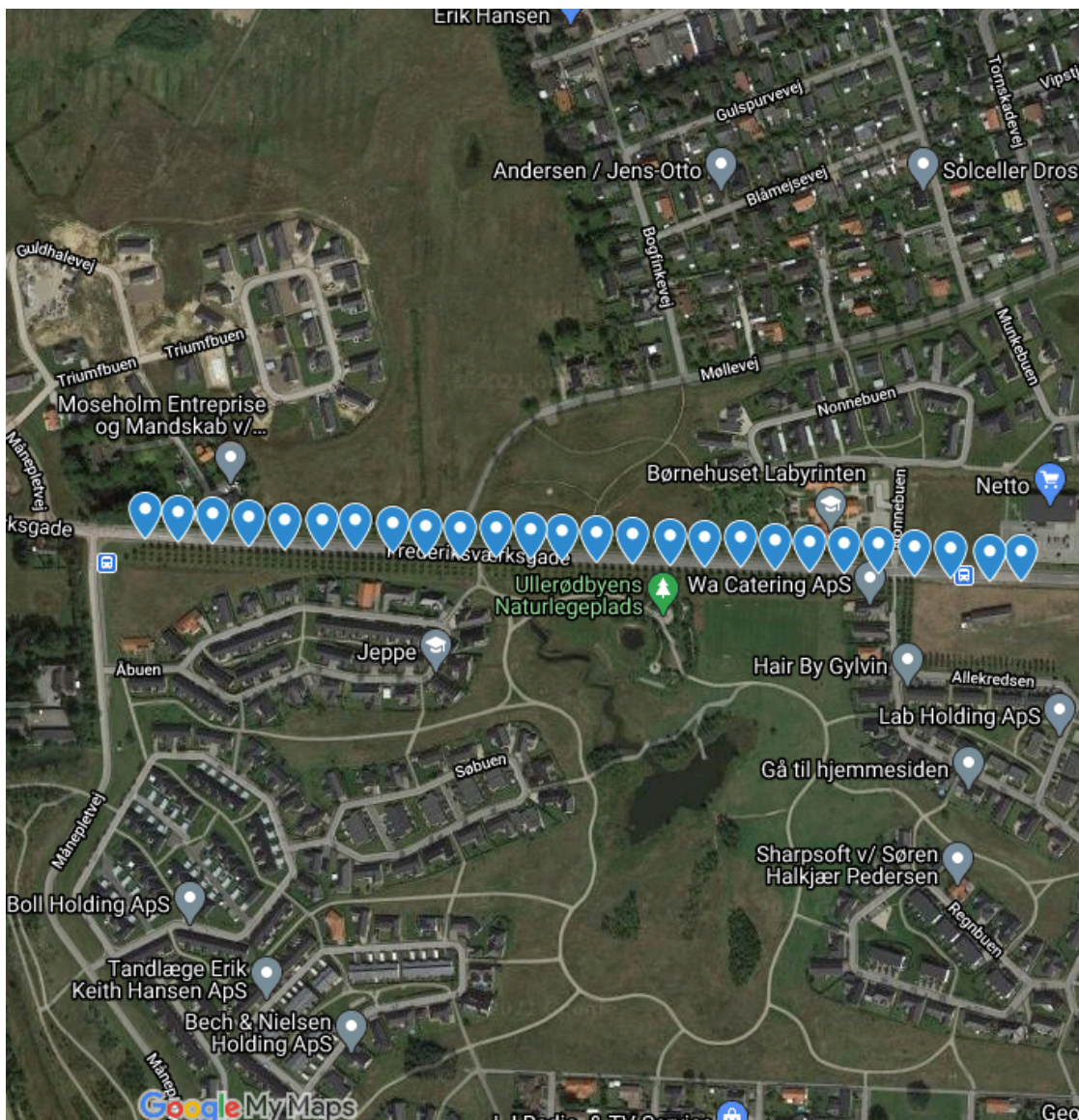
Unique Selling Point

- Save Energy
- Reduce negative environmental impacts & light pollution
- Provide Full Light and Maximum Safety when there is activity



<https://www.youtube.com/watch?v=RIqXquifMws>

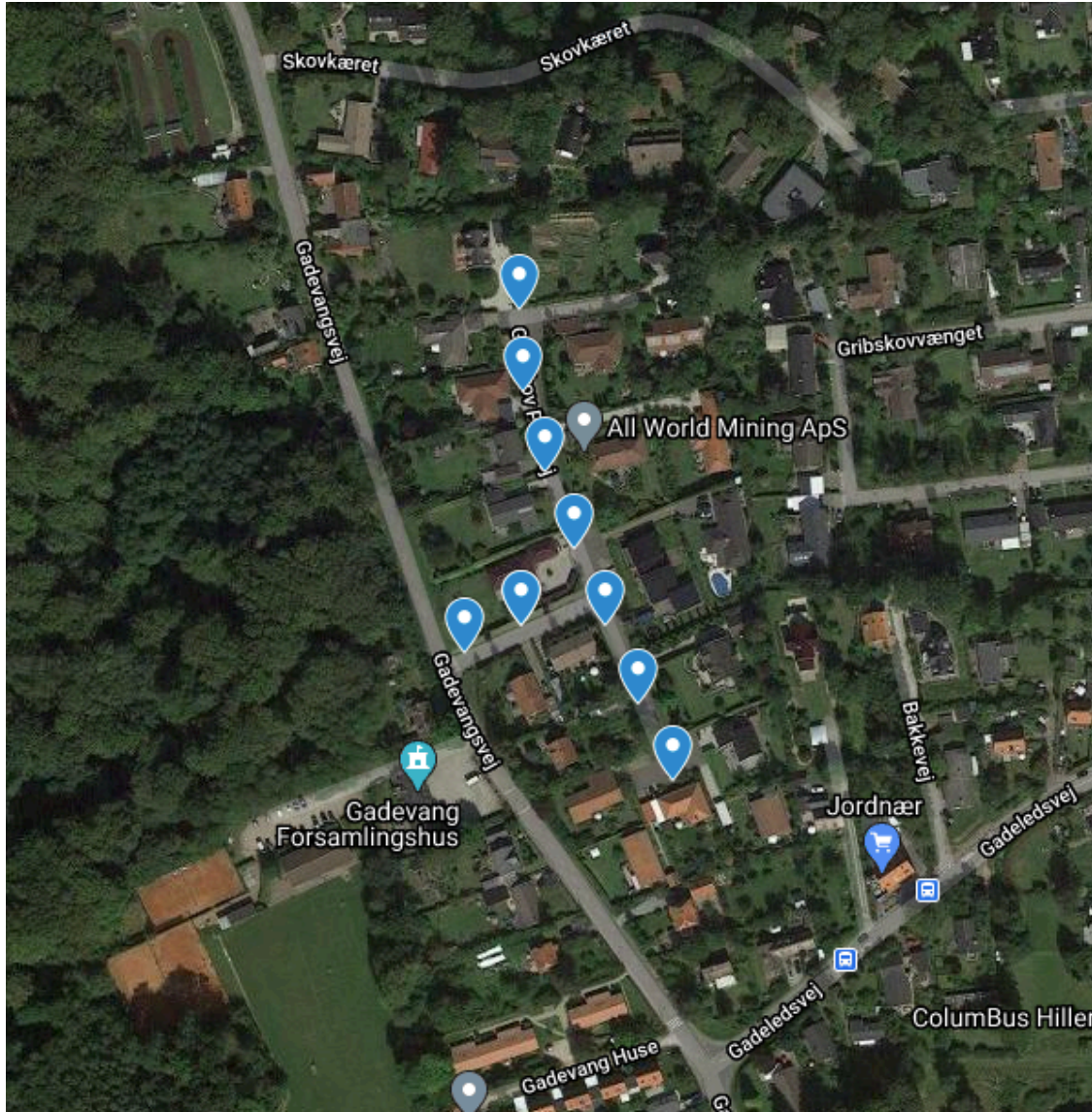
Fredriksværkgade (26 Comlight Zhaga units)



26 x Comlight Zhaga controllers.
Average dim levels individual controllers 44-57%
Average dim level installation 51%

Average of pctLow	Column	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
30/11/2020 - 06/12/2020	Row Labels	52%	51%	51%	52%	53%	52%	54%	55%	55%	55%	57%	57%	57%	57%	57%	57%	57%	57%	57%	56%	56%	57%	57%	58%	58%	60%
07/12/2020 - 13/12/2020		47%	46%	45%	48%	48%	48%	49%	51%	51%	52%	53%	54%	53%	53%	53%	52%	52%	52%	52%	52%	52%	52%	53%	53%	54%	55%
14/12/2020 - 20/12/2020		47%	46%	45%	47%	48%	48%	49%	49%	50%	51%	52%	53%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	53%	53%	54%	55%
21/12/2020 - 27/12/2020		52%	51%	49%	51%	51%	51%	52%	53%	54%	54%	55%	56%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%	56%	56%	57%	58%
28/12/2020 - 03/01/2021		42%	41%	38%	39%	39%	39%	40%	41%	43%	43%	45%	45%	45%	45%	44%	44%	44%	44%	44%	45%	45%	44%	45%	44%	46%	49%
04/01/2021 - 10/01/2021		45%	44%	43%	46%	46%	47%	48%	50%	50%	51%	55%	56%	55%	55%	55%	55%	55%	55%	55%	54%	55%	55%	55%	56%	56%	57%
11/01/2021 - 17/01/2021		46%	45%	42%	45%	45%	46%	47%	49%	49%	50%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	52%	54%	55%
18/01/2021 - 24/01/2021		43%	43%	41%	44%	44%	44%	45%	47%	47%	47%	50%	51%	51%	50%	50%	50%	50%	49%	50%	50%	50%	51%	52%	53%	54%	56%
25/01/2021 - 31/01/2021		49%	48%	46%	49%	49%	49%	50%	53%	53%	53%	54%	55%	55%	54%	55%	55%	55%	54%	55%	55%	55%	55%	56%	56%	57%	59%
01/02/2021 - 02/02/2021		52%	51%	49%	52%	52%	52%	53%	55%	56%	57%	58%	59%	59%	58%	59%	59%	59%	58%	58%	59%	59%	59%	61%	61%	62%	64%
Average dim time		47%	46%	44%	47%	47%	47%	48%	50%	50%	51%	53%	53%	53%	53%	53%	53%	53%	52%	52%	53%	53%	53%	53%	54%	55%	57%

Gribskov Parkvej



10 x Comlight Zhaga controllers.
 Average dim levels individual
 controllers 65-82%
Average dim level installation 74%

Average of pctLow	Column Labels									
Row Labels	1	2	3	4	5	6	7	8	9	10
02/07/2020 - 08/07/2020	88%	88%	50%	50%	53%	55%	50%	83%	84%	88%
09/07/2020 - 15/07/2020	87%	87%	66%	65%	70%	73%	66%	83%	84%	88%
16/07/2020 - 22/07/2020	79%	79%	59%	58%	65%	71%	56%	66%	68%	73%
23/07/2020 - 29/07/2020	81%	81%	50%	50%	55%	59%	47%	69%	70%	75%
30/07/2020 - 05/08/2020	74%	75%	50%	51%	57%	62%	50%	69%	70%	75%
06/08/2020 - 12/08/2020	37%	38%	16%	19%	26%	34%	15%	24%	26%	33%
27/08/2020 - 02/09/2020	76%	77%	60%	65%	71%	74%	60%	69%	71%	74%
03/09/2020 - 09/09/2020	81%	81%	54%	54%	61%	63%	54%	74%	76%	82%
10/09/2020 - 16/09/2020	82%	81%	56%	53%	64%	69%	54%	69%	71%	81%
17/09/2020 - 23/09/2020	84%	83%	76%	75%	84%	91%	74%	78%	80%	87%
24/09/2020 - 30/09/2020	81%	81%	72%	73%	81%	87%	70%	75%	76%	82%
01/10/2020 - 07/10/2020	81%	81%	72%	74%	78%	84%	74%	73%	75%	77%
08/10/2020 - 14/10/2020	86%	86%	82%	84%	87%	90%	84%	87%	89%	91%
15/10/2020 - 21/10/2020	88%	88%	83%	86%	89%	92%	86%	87%	88%	91%
22/10/2020 - 28/10/2020	81%	81%	72%	74%	78%	82%	74%	80%	81%	85%
29/10/2020 - 04/11/2020	80%	81%	73%	77%	81%	85%	76%	81%	83%	86%
05/11/2020 - 11/11/2020	83%	84%	76%	80%	84%	87%	79%	83%	84%	87%
Average dim time	81%	82%	65%	66%	71%	75%	65%	76%	77%	82%