



Cantine lighting for enhanced wellbeing and reduced food waste – Lund municipality

Background and purpose

This demo project is carried out by the Service department at Lund municipality. Its purpose is to create a nice eating environment by using light, which is supposed to give a positive and calm eating experience, which in turn is expected to reduce food waste. New LED lighting is not only energy efficient, it also gives great opportunities when it comes to creating light environments with a positive effect on human beings. Especially when it comes to human centric lighting. How an eating environment is designed may affect the pupils tendency to sit in peace and quiet and eat their food, thereby reducing foodwaste. This is what we aim to investigate when we refurbish the cantine at Nyvång school in Dalby. Today the cantine looks like in the pictures below. The new cantine will be situated in another building, that will be reconstructed and extended. There are floor plans of the new cantine attached to this summary.



What we want to solve

The cantine environment is often stressful, messy and loud. The municipality is going to refurbish several cantins in the coming years and therefore there is a need to find smart solutions that can contribute to pleasant eating environments. Noise level and social interaction are important parts. What we do at Nyvång school will hopefully learn us something for future projects.

Waste of food increase the food's negative environmental effects. Food waste is measured regularly in all schools in Lund. The waste has been reduced substantially but has now stabilized at about 20%. The Service department needs to find new ways of working to further reduce the waste. A calmer eating environment that can be partly created with light can be one way to reduce food waste.

The municipality also has a tough goal regarding energy efficiency, which means that we need to identify suitable measures when refurbishing.

Goal?

To find a new working process that helps us to create a more pleasant eating environment for the children – a new way of thinking that can be reused in other reconstructions or new buildings.

Who or What do we seek?

We are looking for a creative lighting designer who can help us to work out a lighting concept for a new cantine and its entrance during the autumn of 2016, starting already in October.

Our wishes?

The lighting designer shall be able to cooperate with a roject group consisting of an architect, electricity consultant etc. The innovation heigh of the chosen solutions must be high and we need to try out new solution. The entrance/cloakroom is very important. If we can create a calm atmosphere already here, we

believe that the atmosphere in the canteen will be calmer as well. We want to know what light can do to contribute to this. Washing of hands shall be done in the cloakroom both before and after eating. Can light help putting focus on the sink? The cloakroom leads into the canteen where the first stop is two food serving lines. Here we want the light to guide the children through the area and also to give the food a good colour rendering. Thereafter we come to the seating area. Here the children have both breakfast, lunch and an afternoon snack. Here we want to see if light can help us create pleasant environment during all time of the day, which might demand different light at different times. The perception of the middle part of the room can be a bit dark, why special focus should be addressed there.

About Lund Municipality

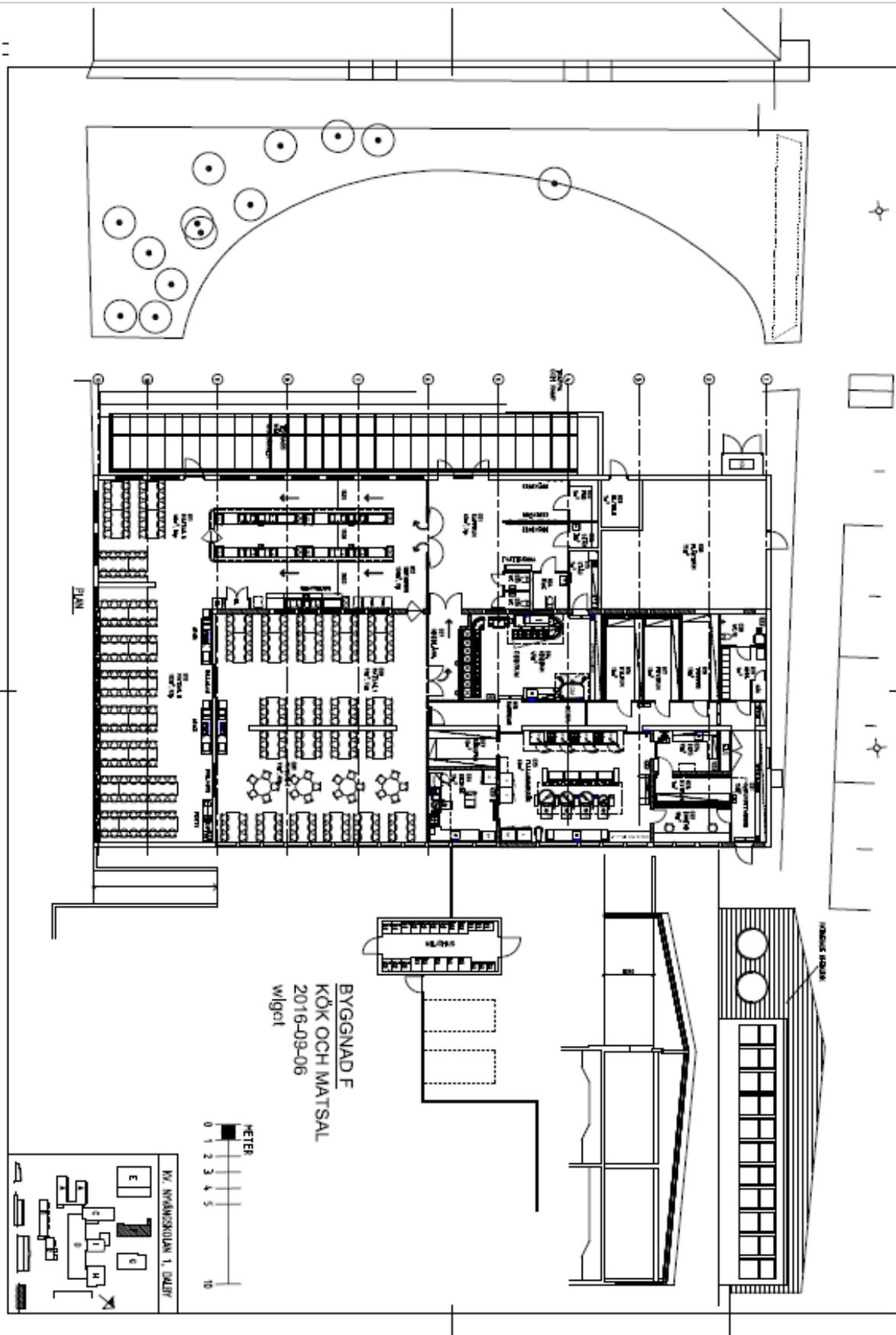
Lund municipality has highly set sustainability goals and aim at being in the forefront when it comes to innovation and development. The Service department has an important role within these areas. As the owner and administrator of approx. 600 000 m² of municipal buildings and as the organization that daily cooks 18 000 servings for the municipal organization, our work can make a difference.

Company meetings

On October 5th, 2.30-4.00 pm we are planning to meet with a few lighting designers to find a partner for this project. We invite you to come and present your company and your ideas for 10-15 minutes. The venue is Kristallen in Lund, Brotorget 1. There will be no economic compensation for the presentation.

Sign up

Sign up by e-mailing Elin Dalaryd, elin.dalaryd@lund.se before the 29th of September. When the deadline for signing up has passed we will make a detailed program and give you an exact time and length for your presentation..



BYGGNAD F
 KÖK OCH MATSAL
 2016-09-06
 w/grot

METER
 0 1 2 3 4 5 10

