

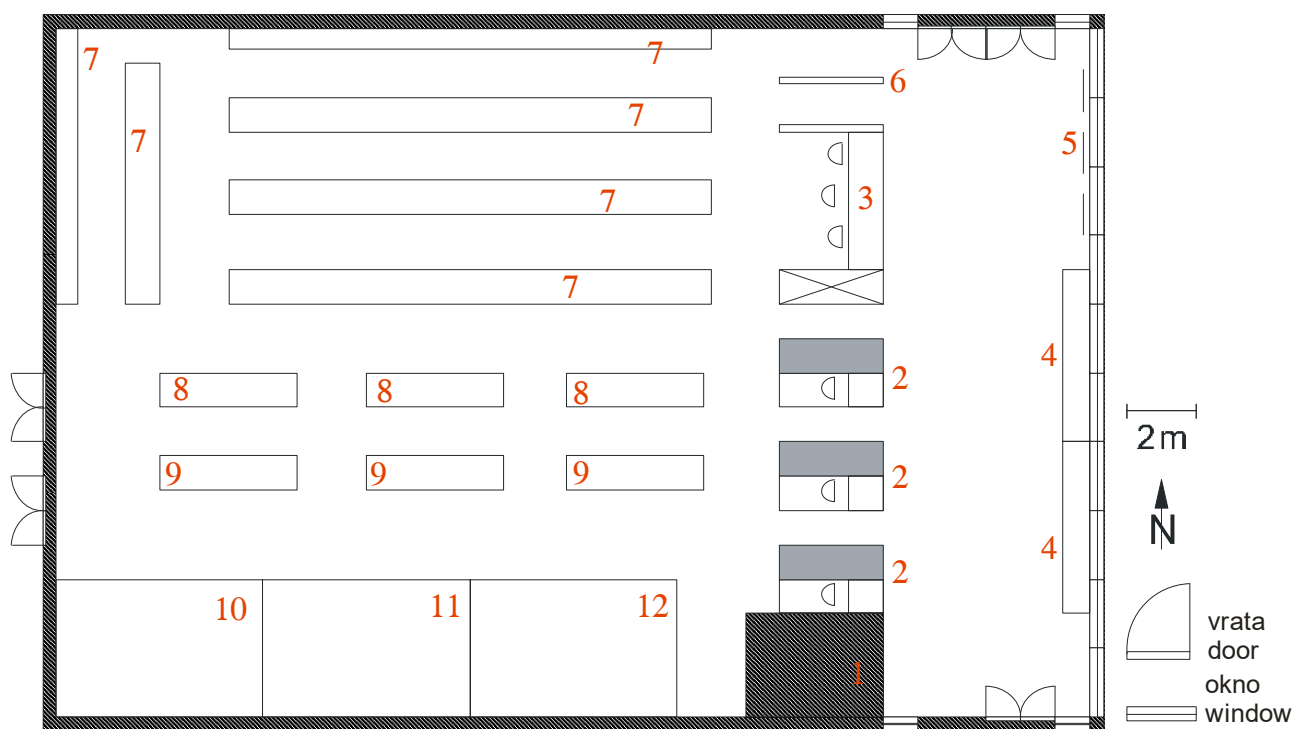
Projektna naloga

za izpit pri predmetu Svetlobna tehnika

Izdelajte projekt razsvetljave supermarketa – trgovine z živili.

Opis prostora:

- velikost prostora: dolžina: 30 m, širina: 20 m, višina: 4 m;
- odsevnosti: strop: 0,7, stene: 0,6, tla: 0,4;
- prostor je namenjen prodaji živil;
- strop bo izveden klasično – betonska plošča, inštalacije za svetilke v stropu;
- okvirni razpored pohištva in druge opreme je viden iz tlorisa;
- če ni drugače navedeno, upoštevajte standardno višino in dimenzije pohištva;



Tloris prostora z okvirno razporeditvijo pohištva in ostale opreme. Oznake pomenijo:

1. prostor za vozičke;
2. blagajne;
3. pult za informacije, višina 150 cm;
4. mize za zlaganje nakupljenih izdelkov, višina 120 cm;
5. plakati za promocijo izdelkov;
6. vhod v supermarket;
7. police z izdelki, višina 200 cm;
8. hladilne vitrine, višina 180 cm;
9. zamrzovalne skrinje, višina 110 cm;
10. prodaja mesa;
11. prodaja delikatese;
12. prodaja kruha.

Projekt naj obsega:

- tehnično poročilo
- izpis rezultatov izračunov kot prilogo

Tehnično poročilo mora vsebovati:

- kratek opis prostora;
- navedbo splošnih zahtev za razsvetljavo delovnih mest v prostoru;
- opis delovnih mest z navedbo ustrezne osvetljenosti in ostalih relevantnih parametrov;
- navedbo in utemeljitev izbranega koncepta in vrste razsvetljave;
- navedbo in utemeljitev izbranih svetlobnih virov;
- navedbo in utemeljitev izbranih svetilk;
- prikaz osnovnih podatkov o prostoru in izbranih svetilkah ter virih;
- navedbo in kratek komentar glavnih rezultatov;
- navodila za vzdrževanje razsvetljave;
- navedbo upoštevanih dokumentov.

Priloga tehničnega poročila (izpis iz programa s katerim ste izvedli izračune) mora vsebovati vse relevantne podatke iz katerih je mogoče oceniti ustreznost projekta in njegovo skladnost z zahtevami standarda in drugih regulativnih dokumentov (npr. tehničnih smernic).

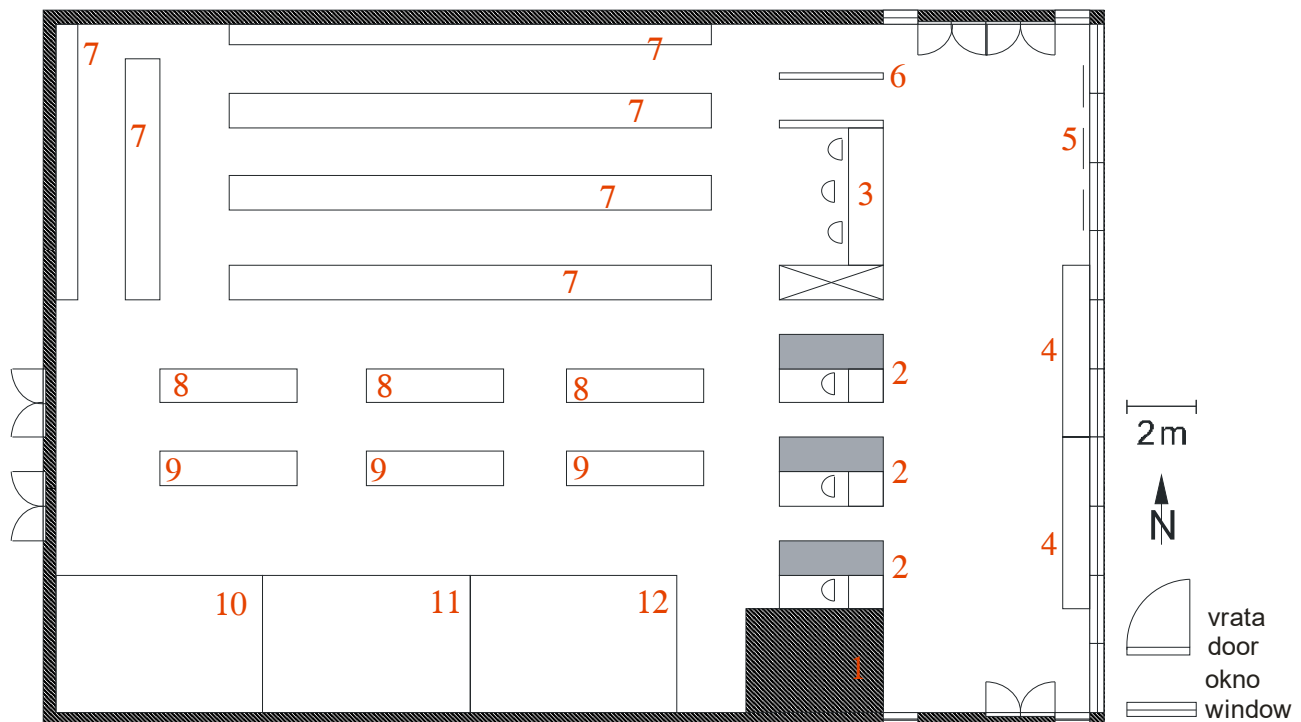
Project task

in the subject Lighting Engineering

Design lighting of Supermarket – grocery store.

Description of the room:

- Size of the room: length: 30 m, width: 20 m, height: 4 m.
- Reflections of surfaces: ceiling: 0.7, wall: 0.6, floor: 0.4.
- Store is intended for the sale of food.
- Ceiling will be made as a concrete slab, el. installation will be in ceiling.
- The basic design and arrangement of furniture and other equipment is visible on the ground plan below;
- If not stated otherwise, consider the standard height and dimensions of the furniture;



Ground plan of a room with basic arrangement of furniture and other equipment. Noted with numbers are:

1. a space for trolleys;
2. cash registers;
3. information desk, height 150 cm;
4. tables for stacking of purchased products, height of 120 cm;
5. posters for the promotion of products;
6. entrance to the supermarket;
7. shelves with products, height 200 cm;
8. refrigerating showcases, height 180 cm;
9. freezer cases, height 110 cm;
10. sale of meat products;

- 11. sale of delicatessen;
- 12. sale of bread.

Project should include:

- Technical report.
- Printed results of calculations as an attachment.

Technical report must include:

- Brief description of the room.
- List of general requirements for lighting in the room.
- List of "workplaces" in the room with description of the appropriate lighting and other relevant parameters.
- Description and justification of the chosen concept and type of lighting.
- Description and justification of the selected light sources.
- Description and justification of the selected luminaires.
- Basic information about the room and selected light sources and luminaires.
- Main results with short discussion.
- Instructions for maintenance of the lighting.
- References.

Attachment of the technical report (print from the calculation program - DIALux) must contain all relevant information needed for evaluation of the project and its compliance with the requirements from the standards and other regulatory documents (e.g. technical guidelines).