St Michael church, Berlin final study

LiDe3 2015 Workshop Project

Alaa ALCHADDOUD TIMIS GABRIEL DIMITRIS ILIADIS COSMIN TOPARCEAN,

.

Goals of the project

- Highlight the destruction of the church
- There is no need for the entire building to be lit
- Focus on essentials
- Avoid any glare for the residents
- Minimum number of lighting fixtures
- satisfactory luminous efficacy
- hide the lighting fixtures
- Minimal approach



Difficulties and challenges

- It is an almost pure residential and quite area
- the lighting should not disturb

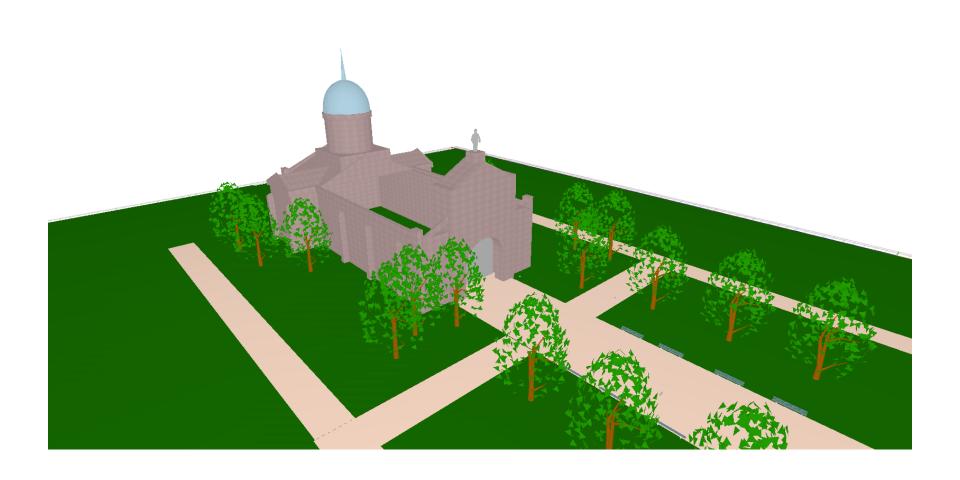
the flora and fauna of the area

- Trees create obstacles and shadows
- The church is a sculpture and not a worship building
- The church is accessible from all the directions
- Compliance with the standards

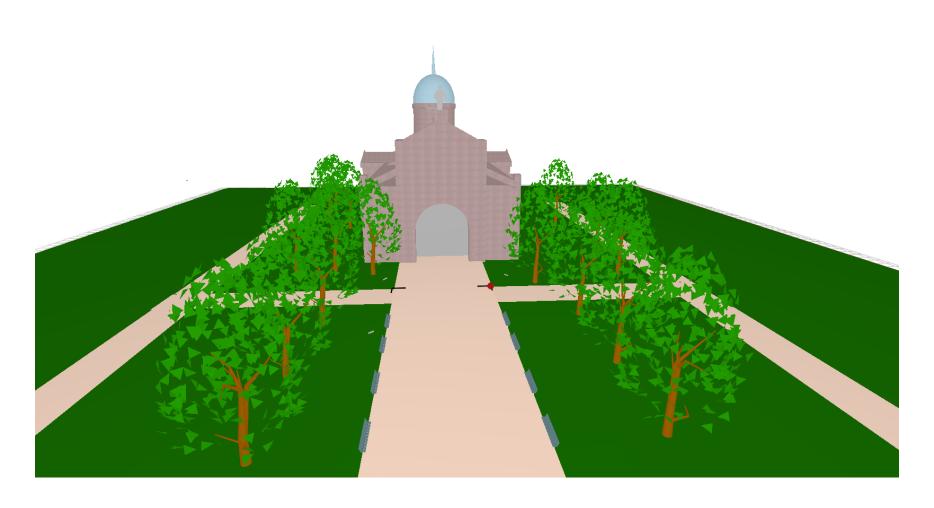




St Michael church, Berlin 3D modeling



St Michael church, Berlin 3D modeling



Determination of the main entrance

Luminaire data

Absolute Photometry

 Luminaire efficacy
 : 63.95 lm/W

 Classification
 : A41 ? 97.6% ↑2.4%

 CIE Flux Codes
 : 51 89 99 98 100

UGR 4H 8H (20%, 50%, 70%)

C0 / C90 : 27.2 / 29.1

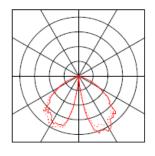
Control gear : electronic transformer

 System power
 : 56 W

 Length
 : 100 mm

 Width
 : 100 mm

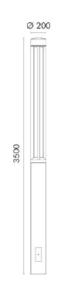
 Height
 : 100 mm

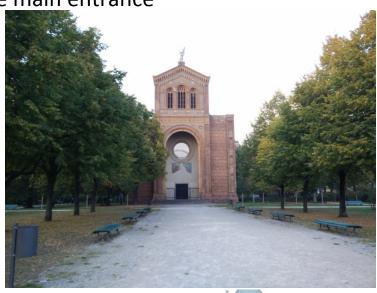


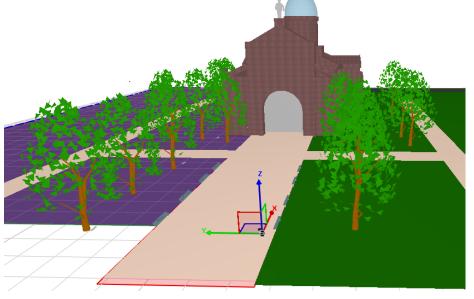


Equipped with

Quantity : 1
Designation : LED
Colour : 3200K
Luminous flux : 3581 lm





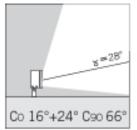


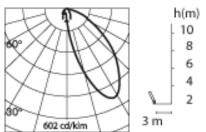
Determination of the main entrance

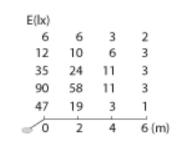


Main façade

Luminaries at poles Warm white 3200K, metal halide



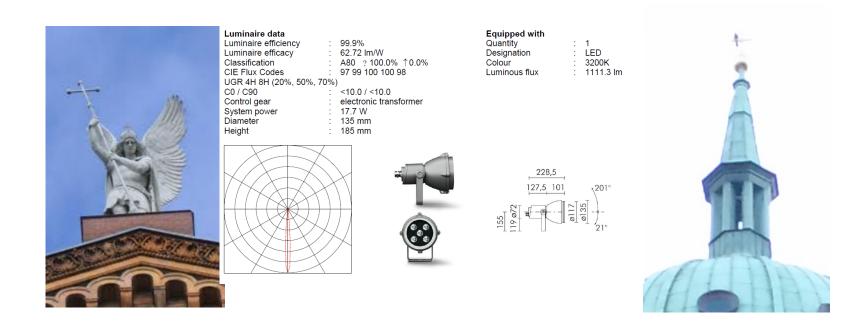










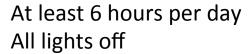


Bright cold white 6200K

Warm 2700K

time- definite operation :

MONDAY – FRIDAY - 11:00 p.m SATURDAY – SUNDAY – 01:00 a.m





Total power installed 800W



