

I. IDENTIFICATION DATA

Thesis name:	Advantages and Risks of LED Luminaire for Road Lighting
Author's name:	Hitesh Kataru
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	Electrical Power Engineering
Thesis reviewer:	Ing. Jan Novotný
Reviewer's department:	Lumidée, s.r.o.

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment	ordinarily challenging
<i>Evaluation of thesis difficulty of assignment.</i>	
This assignment may be quite interesting regarding to the subject's theme. It is still evolving and needs to be examined.	

Satisfaction of assignment	fulfilled with major objections
<i>Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.</i>	
There are considerable differences between the Master's thesis name, Guidelines and the Master's thesis content. The basis of Master's thesis name consist of LED and road lighting. However the content of this work does fulfill these themes only partly. The significant part of this work leads to other problems or the guidelines are badly described. Lot of conclusions and semiconclusions are misleading to specific problem (road lighting).	

Method of conception	correct
<i>Assess that student has chosen correct approach or solution methods.</i>	
The method of conception is chosen well but the solution is poorly done.	

Technical level	D - satisfactory.
<i>Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.</i>	
There are significant shortages in technical complexity of the work. There are lot of literature sources which are often misleading so the conclusion regarding to the work's theme are improper. Description of mentioned measurements is completely missing including used devices, it's parameters etc.	

Formal and language level, scope of thesis	D - satisfactory.
<i>Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.</i>	
Pictures, tables, quantities and unit are poorly synchronized, frequently missing. Scope of thesis is rather small.	

Selection of sources, citation correctness	D - satisfactory.
<i>Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.</i>	
There are many citations from external sources in the work correctly mentioned. However lot of these citations is totally misleading regarding to the thesis theme. There is a very bad work with external sources and misunderstanding of the thesis problem. This is probably the consequence of the difference between thesis theme and the work content.	

Additional commentary and evaluation
<i>Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.</i>

Primary goals of the thesis are met only partly. Theoretical results as the misleading sources are also misleading or inadequate.

III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation. Please present apt questions which student should answer during defense.

I evaluate handed thesis with classification grade D - satisfactory.

Questions:

- 1) Is it possible to classify a road for motor vehicle as a C class? Why the standard EN 13201-2 requires luminance measurement in ME classes and illuminance in C classes?
- 2) How would you describe total cost and payback time regarding to replacement of public lighting? How is this affected by integrating smart control system?
- 3) What if the effect of white light with high color temperature of the driver?

Date: **07/06/2017**

Signature: