



DODATEČNÉ PODKLADY PRO
KVANTITATIVNÍ HODNOCENÍ
V HABILITAČNÍM ŘÍZENÍ

ING. LEOŠ OLDŘICH KUKAČKA, PH.D.

31. SRPNA 2023

C POTVRZENÍ O AUTORSKÝCH PODÍLECH
NA VĚDECKÝCH PUBLIKACÍCH



publication	Year	Kukačka	Drápela	Meyer	Stiegler	Vik	Nečásek	Bílek	Hergesel	Pourarab
Comparison of Procedures for Measuring the Temporal Contrast Sensitivity Function	2023	30	5	5	5	5	15	15	20	
Flicker Visibility with Different Spectra of White Light	2023	30	5	5	5	5	20	10	15	5

I agree with the author shares stated above.

Ing. Petr Bílek, Ph.D.

Liberec, 31 May 2023





publication	Year	Kukačka	Dupuis	Zissis	Vik	Richter	Canale
Calibration of a Brightness Matching Experiment Setup in Mesopic and Scotopic Conditions	2020	30	45	5	10	5	5

I agree with the author shares stated above.

dr. Laurent Canale

Toulouse, 26 May 2023





publication	Year	Kukačka	Vik	Drápela	Meyer	Stiegler	Halpin, Mombauer	Hergesel, Nečásek, Bílek, Pourarab	Hudač
Flicker and Driver Topology Assessment of Extra Low Voltage LED Lamps Under DC Supply	2016	70		30					
A Preliminary Study on Modeling of Voltage Induced Flicker Sensitivity of Fluorescent and LED Lamps with Closed-Loop Control	2020	70		30					
Comparison of Algorithms for Flicker Irritation Assessment	2021	35		15	15	25	5+5		
Response of Flicker Assessment Algorithms to Interharmonic Distortion Patterns	2022	35		25	20	20			
Comparison of Procedures for Measuring the Temporal Contrast Sensitivity Function	2023	30	5	10	10	10		10+15+10+0	
Survey on LED Lamps for Residential Applications: Characterization of Performance	2023	5		40	5	5			45
Flicker Visibility with Different Spectra of White Light	2023	30	5	10	10	5		10+15+10+5	

I agree with the author shares stated above.

prof. Ing. Jiří Drápela, Ph.D.

Bmo, 26 May 2023



publication	Year	Kukačka	Kraus	Kolář	Dupuis	Zissis	Simanjuntak	Jinno	Motomura	Rozkovec
Simplified Model of LED Ballasts for SPICE	2014	40	70		25	5	30			
Extra Low Voltage DC Grid Lighting Systems: Photometric Flicker Analysis	2015	50	5	5	35	5				
Retrofit LED Lamps: Photometric Flicker Analysis	2015	50		5	40	5				
Review of AC Power Theories under Stationary and Non-stationary, Clean and Distorted Conditions	2015	60	20	5	10	5				
On Correct Evaluation Techniques of Pulsing Light Brightness Enhancement Effect Measurement Data	2017	35		5	25	5		5	15	10
LED Drivers: The Role of the Rectifier on Flicker Immunity in LV DC Environment	2018	60	5	5	25	5				

publication	Year	Kukačka	Dupuis	Zissis	Vik	Richter	Canale	Mach, Chmelařová, Schreiber, Mazač, Florianová, Hergesel
Establishing Confidence Intervals for Luminous Flicker Measurements	2019	50	40		10			
Photometric Flicker Metrics – Analysis and Perspectives	2020	10	75	5	5	5		
Calibration of a Brightness Matching Experiment Setup in Mesopic and Scotopic Conditions	2020	30	45	5	10	5	5	



Odhad nejistoty měření při určování úrovně mihání podle IEEE 1789-2015	2020	50	40		10			
Confidence Intervals for Luminous Flicker Measurements: Comparison of Various Approaches	2021	40	40	5	10	5		
Brightness Matching Experiments with Pulsed Light: Experiment Design	2021	25	15					10+15+10+15+10+0
Implementation and Preliminary Verification of an Alternative Flicker Observer Model	2022	50	45	5				
Critical Flicker Frequency and Auditory Stimuli – Procedure Settings	2022	40	15	5				0+25+0+0+0+15

I agree with the author shares stated above.



Dr. Pascal Dupuis

Toulouse, 26 May 2023



publication	Year	Kukačka	Dupuis, Zisis	Drápela, Meyer, Stiegler, Vik	Nečásek	Bílek	Hergesel	Pourarab	Chmelařová
Critical Flicker Frequency and Auditory Stimuli – Procedure Settings	2022	40	15+5				15		25
Comparison of Procedures for Measuring the Temporal Contrast Sensitivity Function	2023	30		5+5+5+5	15	15	20		
Flicker Visibility with Different Spectra of White Light	2023	30		5+5+5+5	20	10	15	5	

I agree with the author shares stated above.




Bc. Jan Hergesel

Liberec, 29 May 2023



publication	Year	Kukačka	Kraus	Kolář	Dupuis	Zissis	Jinno	Motomura	Rozkovec
Extra Low Voltage DC Grid Lighting Systems: Photometric Flicker Analysis	2015	50	5	5	35	5			
Retrofit LED Lamps: Photometric Flicker Analysis	2015	50		5	40	5			
Review of AC Power Theories under Stationary and Non-stationary, Clean and Distorted Conditions	2015	60	20	5	10	5			
On Correct Evaluation Techniques of Pulsing Light Brightness Enhancement Effect Measurement Data	2017	35		5	25	5	5	15	10
LED Drivers: The Role of the Rectifier on Flicker Immunity in LV DC Environment	2018	60	5	5	25	5			

I agree with the author shares stated above.


doc. Ing. Milan Kolář, CSc.

Liberec, 22 May 2023



publication	Year	Kukačka	Kraus	Bubla	Stěpán	Bedrník	Kolář	Nyrobotseva	Dupuis	Zissis
Data Modeling for Reduction of Volume in Large Archives of Power Quality Data	2011	5	70	25						
Optimal Data Compression Techniques for Smart Grid and Power Quality Trend Data	2012	10	70		20					
CPC teorie – praktická analýza běžných jevů v síti	2012	80	20							
CPC and IEEE Power Theory – Application for Offline Waveform Data Analysis	2013	70	20	5	5					
Magnitude Oriented Intelligent Grouping Scheme for Harmonics Above 2 kHz	2014	40	20			40				
Dynamic Intelligent Compression for Power Quality Analysers	2015	10	10		10	70				
Extra Low Voltage DC Grid Lighting Systems: Photometric Flicker Analysis	2015	50	5				5		35	5
Review of AC Power Theories under Stationary and Non-stationary, Clean and Distorted Conditions	2015	60	20				5		10	5
Implementation of Flicker Meter in Power Quality Analyzers	2015	5	20	15	60					
Detailed Analysis of Class F1/F3 Flickermeter Implementations According to the Recent IEC Standards	2015	20	10		70					



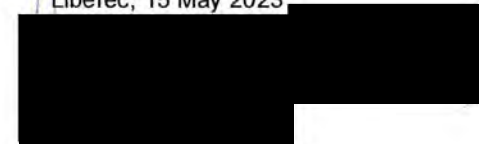


Common Three Phase Active Power Definition and its Questionable Suitability for the Smart Grid Meters	2016	10	30			60				
LED Drivers: The Role of the Rectifier on Flicker Immunity in LV DC Environment	2018	60	5						25	5
A-Posteriori Synchronization of Power Quality Data in Smart Grids	2021	15	5					80		

I agree with the author shares stated above.

Ing. Jan Kraus, Ph.D.

Liberec, 15 May 2023





publication	Year	Kukačka	Dupuis	Mach	Chmelařová	Schreiber	Mazač	Florianová
Brightness Matching Experiments with Pulsed Light: Experiment Design	2021	25	15	10	15	10	15	10

I agree with the author shares stated above.

Ing. Ondřej Mach




Liberec, 31 May 2023



publication	Year	Kukačka	Dupuis	Mach	Chmelařová	Schreiber	Mazač	Florianová
Brightness Matching Experiments with Pulsed Light: Experiment Design	2021	25	15	10	15	10	15	10

I agree with the author shares stated above.

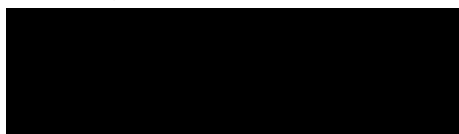

Ing. Martin Mazač, Ph.D.

Liberec, 31 May 2023



publication	Year	Kukačka	Vik	Drápela	Meyer	Stiegler	Halpin, Mombauer	Hergesel, Nečásek, Bílek, Pourarab	Hudač
Comparison of Algorithms for Flicker Irritation Assessment	2021	35		15	15	25	5+5		
Response of Flicker Assessment Algorithms to Interharmonic Distortion Patterns	2022	35		25	20	20			
Comparison of Procedures for Measuring the Temporal Contrast Sensitivity Function	2023	30	5	10	10	10		10+15+10+0	
Survey on LED Lamps for Residential Applications: Characterization of Performance	2023	5		40	5	5			45
Flicker Visibility with Different Spectra of White Light	2023	30	5	10	10	5		10+15+10+5	

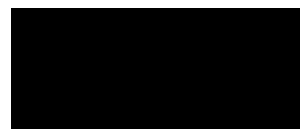
We agree with the author shares stated above.



Jan Meyer



Robert Stiegler



Morteza Pourarab

Dresden, 16 June 2023



publication	Year	Kukačka	Drápela	Meyer	Stiegler	Vik	Novák	Nečásek	Ringelhán	Hergesel	Pourarab
Numerical Environment for Modeling and Analyzing Transients in Static VAR Compensators	2020	40					20	40			
Comparison of Procedures for Measuring the Temporal Contrast Sensitivity Function	2023	30	5	5	5	5	70	15	15	20	
Flicker Visibility with Different Spectra of White Light	2023	30	5	5	5	5		20		15	5

I agree with the author shares stated above.

Ing. Jakub Nečásek, Ph.D.



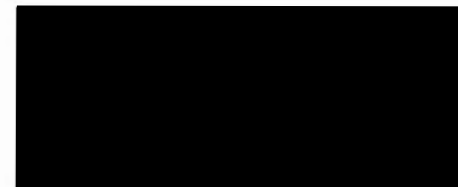
Liberec, 22 May 2023



publication	Year	Kukačka	Novak	Nečásek	Ringelhán
Numerical Environment for Modeling and Analyzing Transients in Static VAR Compensators	2020	40	20	40	
Overview of Thyristor Module Parameters for Fast Static Var Compensation Available on the Market	2020	15	70		15

I agree with the author shares stated above.

Ing. Miroslav Novák, Ph.D.



Liberec, 22 May 2023



publication	Year	Kukačka	Kraus	Nyrobotseva
A-Posteriori Synchronization of Power Quality Data in Smart Grids	2021	15	5	80

I agree with the author shares stated above.

Ing. Ekaterina Nyrobotseva

Liberec, 31 May 2023





publication	Year	Kukačka	Dupuis	Zissis	Vik	Richter	Canale
Photometric Flicker Metrics: Analysis and Perspectives	2020	10	75	5	5	5	
Calibration of a Brightness Matching Experiment Setup in Mesopic and Scotopic Conditions	2020	30	45	5	10	5	5
Confidence Intervals for Luminous Flicker Measurements: Comparison of Various Approaches	2021	40	40	5	10	5	

I agree with the author shares stated above.


prof. Ing. Aleš Richter, CSc.

Liberec, 31 May 2023



publication	Year	Kukačka	Dupuis	Zissis	Vik	Drápela	Meyer	Stiegler	Richter	Canale	Hergesel, Nečásek, Bílek, Pourarab
Establishing Confidence Intervals for Luminous Flicker Measurements	2019	50	40		10						
Photometric Flicker Metrics – Analysis and Perspectives	2020	10	75	5	5				5		
Calibration of a Brightness Matching Experiment Setup in Mesopic and Scotopic Conditions	2020	30	45	5	10				5	5	
Odhad nejistoty měření při určování úrovně mihání podle IEEE 1789-2015	2020	50	40		10						
Confidence Intervals for Luminous Flicker Measurements: Comparison of Various Approaches	2021	40	40	5	10				5		
Comparison of Procedures for Measuring the Temporal Contrast Sensitivity Function	2023	30			5	10	10	10			10+15+ 10+0
Flicker Visibility with Different Spectra of White Light	2023	30			5	10	10	5			10+15+ 10+5

I agree with the author shares stated above.

prof. Ing. Michal Vik, Ph.D.

Liberec, 26 May 2023



publication	Year	Kukačka	Kraus	Kolář	Dupuis	Zissis	Simanjuntak	Jinno	Motomura	Rozkovec
Simplified Model of LED Ballasts for SPICE	2014	40	70		25	5	30			
Extra Low Voltage DC Grid Lighting Systems: Photometric Flicker Analysis	2015	50	5	5	35	5				
Retrofit LED Lamps: Photometric Flicker Analysis	2015	50		5	40	5				
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On Correct Evaluation Techniques of Pulsing Light Brightness Enhancement Effect Measurement Data	2017	35		5	25	5		5	15	10
LED Drivers: The Role of the Rectifier on Flicker Immunity in LV DC Environment	2018	60	5	5	25	5				

publication	Year	Kukačka	Dupuis	Zissis	Vik	Richter	Canale	Mach, Chmelařová, Schreiber, Mazač, Florianová, Hergesel
Photometric Flicker Metrics – Analysis and Perspectives	2020	10	75	5	5	5		
Calibration of a Brightness Matching Experiment Setup in Mesopic and Scotopic Conditions	2020	30	45	5	10	5	5	
Confidence Intervals for Luminous Flicker Measurements: Comparison of Various	2021	40	40	5	10	5		



Approaches								
Implementation and Preliminary Verification of an Alternative Flicker Observer Model	2022	50	45	5				
Critical Flicker Frequency and Auditory Stimuli – Procedure Settings	2022	40	15	5				0+25+0+0+0+15

I agree with the author shares stated above.



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Toulouse, 26 May 2023