

# Design Resources - LED Mining Lamp

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Design Resources

## Application Notes

Supplier	Device	Title	Date Published
ON Semiconductor	NUD4001	<a href="#">Using the NUD4001 to Drive High Current LEDs</a>	2005-2
ON Semiconductor	NUD4001	<a href="#">NUD4001 and NUD4011 Current Sources for LEDs Lighting Applications</a>	2004-7
ON Semiconductor	NUD4001	<a href="#">NUD4001 Dimming Ability Demonstration Board</a>	2007-8
ON Semiconductor	NUD4001	<a href="#">NUD4001 LED Driver Demonstration Boards</a>	2005-1
ON Semiconductor	NCP5007	<a href="#">Efficient High Power Flash Light</a>	2003-2
ON Semiconductor	NCP5007	<a href="#">Understanding the Noise Issue Out of Inductor Based DC-DC Converter</a>	2008-2
ON Semiconductor	NCP5007	<a href="#">Utilizing a White LED Driver to Drive Xenon Flashes in Cameras and Phones</a>	2005-9
TI	TPS61059	<a href="#">TPS61059 powers white-light LED as photoflash or movie light</a>	2006-7-17

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TI	TPS61058 & TPS61059	Flashlight & Movie-Light Supplies Using TPS61058 & TPS61059 Sync Boost Converter	2006-6-13
TI	TPS61059	Performing Accurate PFM Mode Efficiency Measurements	2006-4-18
TI	TPS61059	Minimizing Ringing at the Switch Node of a Boost Converter	2006-9-15
TI	TPS61059	Optimizing Transient Response of Internally Compensated DC-DC Converters	2008-1-28
TI	TPS6107x	Extending Soft Start Time in TPS6107x Family of Boost	2008-8-07
TI	TPS61040	White Light LED Driver With Gradual Dimming	2007-1-10
TI	TPS61040	Using the TPS61040 in High Voltage Applications	2005-3-16
TI	TPS61040/1	Improved Overvoltage Protection for the TPS61040/1	2006-3-15
TI	TPS61040	Performing Accurate PFM Mode Efficiency Measurements	2006-4-18
TI	TPS61040	Extending Battery Life With the TPS61040 Low Power DC-DC Boost Converter	2006-7-17
TI	TPS61040	High Voltage Power Supply Using the Highly Integrated TPS61040	2006-7-17
TI	TPS61500	TPS61500 Application report	2009-3-30
TI	TPS61055	Optimizing Transient Response of Internally Compensated DC-DC Converters	2008-1-28
TI		QFN/SON PCB Attachment Application Report	2007-7-25
National Semiconductor	LM3410X	LM3410X LED Driver 6-Pin LLP Demo Board	2008-2-1

National Semiconductor	LM3410X	<a href="#">LM3410X LED Driver 5-Pin SOT-23 Demo Board</a>	2008-1-31
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## Evaluation Kits

Supplier	Device	EVKs Part Number	Evaluation Kits Info	Date Published
ON Semiconductor	NUD4001	NUD4001DEVB	<a href="#">NUD4001 LED Driver Revision A Evaluation Board</a>	2006-8-14
ON Semiconductor	NCP5604AMTR2G	NCP5604AAGEVB	<a href="#">NCP5604A 4-output LED Driver Evaluation Board</a>	2006-1-4
ON Semiconductor	NCP5604BMTR2G	NCP5604BAGEVB	<a href="#">NCP5604B 3-output LED Driver Evaluation Board</a>	2006-1-4
ON Semiconductor	NCP5007	NCP5007EVB	<a href="#">NCP5007 Compact White LED Driver Evaluation Board</a>	2004-7-13
TI	TPS61059	TPS61059EVM-141	<a href="#">TPS61059EVM-141</a>	2006-1-24
TI	TPS61040	TPS61040EVM-002	<a href="#">TPS61040EVM-002 White Light LED Bias Supply EVM</a>	2004-9-14
TI	TPS61500	TPS61500EVM-369	<a href="#">TPS61500EVM-369 User's Guide</a>	2008-7-31
TI	TPS61054	TPS61054EVM-273	<a href="#">TPS61054EVM-273</a>	2008-6-04
TI	TPS61054	TPS61054EVM-350	<a href="#">TPS61054EVM-350</a>	2008-8-18
National Semiconductor	LM3410X		<a href="#">LM3410X LED Driver 6-Pin LLP Demo Board</a>	2008-2-1
National Semiconductor	LM3410X		<a href="#">LM3410X LED Driver 5-Pin SOT-23 Demo Board</a>	2008-1-31
Linear Technology	LTC3454	LTC3454EDD	<a href="#">LTC3454EDD Evaluation Kit Quick Start Guide</a>	2005-11
National Semiconductor	LM2734		<a href="#">LM2734 Evaluation Board</a>	2005-2-4
ON Semiconductor	NCP1421	NCP1421EVB	<a href="#">NCP1421 Up to 600 mA DC-DC</a>	2004-8

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			<a href="#">Converter Evaluation Board</a>	
ON Semiconductor	NCP1421	NCP1421LEDEVB	<a href="#">NCP1421 High Current LED Driver Evaluation Board</a>	2004-10-18
National Semiconductor	LM3224	LM3224MM-ADJEV	<a href="#">LM3224 Evaluation Board</a>	20006-1-23

## PodCast

Supplier	Device	PodCast Title	Date Published
National Semiconductor	LM3445	<a href="#">LM3445 TRIAC Dimmable LED Driver LIGHTFAIR Demo</a>	2009-9-1
National Semiconductor	LM3409	<a href="#">LM3409 High-Brightness LED 1000:1 Dimming Demo</a>	2009-7-2
National Semiconductor	LM3445, LM3401, LM3406, LM3406HV, LM3402, LM3402HV, LM3404, LM3404HV, LM3409, LM3409HV, LM3421, LM3423, LM3429	<a href="#">LED Driver Design for General Illumination</a>	2009-5-4
National Semiconductor	LM3402	<a href="#">WEBENCH LED Designer -- LED Driver Design in Minutes</a>	2009-2-3

## Reference Design

Supplier	Device	Reference Design Title	Date Published
TI	TPS61040	<a href="#">Buck/Boost Synchronous Controller</a>	2004-3-06
ON Semiconductor	NCP1014	<a href="#">Offline LED Driver Intended for ENERGY STAR® Residential LED Luminaire Applications - GreenPoint® Reference Design</a>	2009-8

## Spice Model

Supplier	Device	Spice Model Title	Date Published
ON	NUD4001	<a href="#">NUD4001 Models</a>	2007-2-23
ON	NCP5604	<a href="#">NCP5604 PSICE Model</a>	2006-3-30
ON	NCP5007	<a href="#">PSICE model</a>	2003-9-26

## White Paper

Supplier	White Paper Title	Date Published
TI	<a href="#">White LED Power Supply Design Techniques</a>	2003-2-18
National Semiconductor	<a href="#">Matching Driver to LED</a>	2008-1
Avago	<a href="#">Thermal Modeling for Application of High Power LED</a>	2006-11