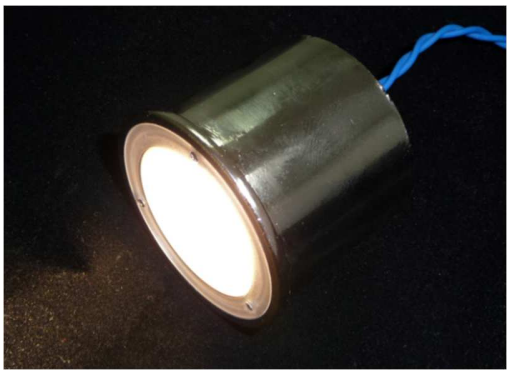
OPTO electronix

The Art of LEDs ™

ULE7000 Series Data Sheet RevB
902-00002(B)

ULE7000 Series



ULE7000 Series
The OptoElectronix™ ULE7000 consists of an LED light source with optics and integrated power module. The optical performance of the ULE7000 is optimized to deliver light directly to the working area. The light beam is focused for good illumination, coverage and minimal losses through reflectors. A range of different beam angles are available so that the best solution can be achieved for each application. It is available in warm, neutral, or cool white.

Features

- No filaments, vibration proof
- Sealed construction- can be used up to 1 meter under water
- 12 volts AC/DC operation
- UL approved
- Water-resistant
- Focused directional beam with 3 available beam angles
- A wide range of light outputs available

Key Applications
This LED Light Engine is primarily designed to replace incandescent and halogen bulbs which have a much shorter life-span and higher power consumption. It is also suitable for harsh environments such as vibration, dust, oil and contaminants. It can be used in a variety of applications such as interior down lights, illumination for elevators, rooms, corridors, lobbies, garden lamps, etc.

Thermal Management
The ULE7000 is designed using thermal profiling and simulation so that the LEDs are operated at an appropriate temperature range, hence ensuring prolonged life-span.

Options

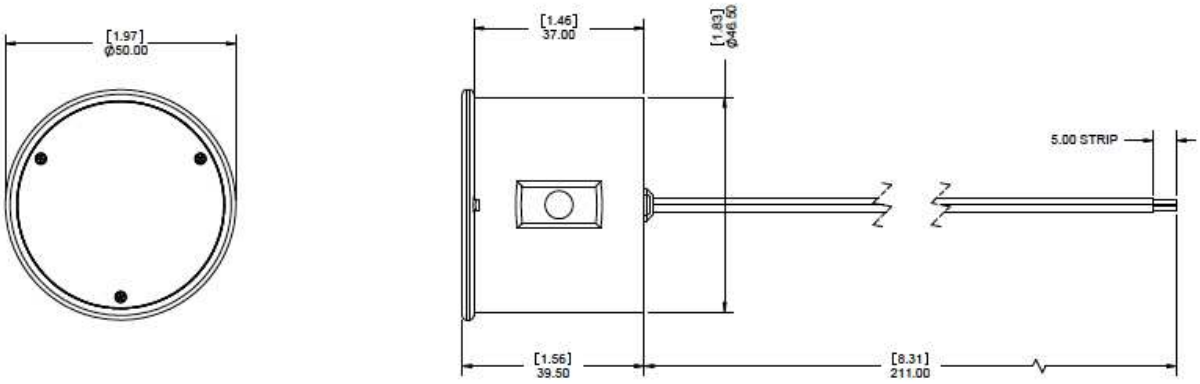
A two pin connector can be fixed to the end of the pig-tail as an option. This has a pin-to-pin spacing of 5.3mm and fits into G5.3 socket typically used for MR16 lamps. **One of several optional heat sinks is required for proper operation.**

Certifications and Completed Tests

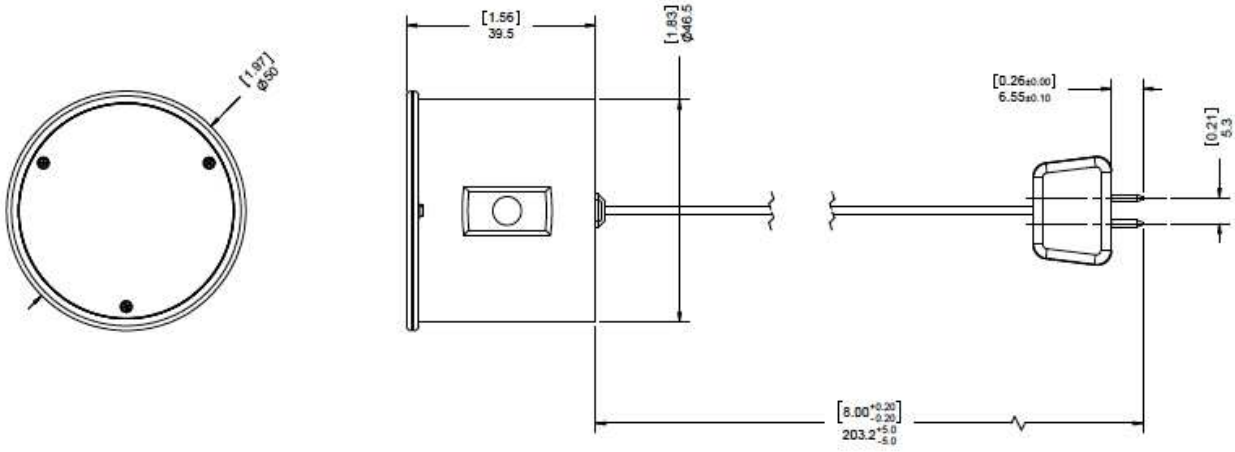
Underwriters Laboratories: UL Component Recognition program for the U.S. and Canada under UL File No. E323412.
RoHS: Compliant
Ingress Protection Rating: IP67 - dust tight and protected against immersion.
IESNA LM80-08: LEDs used comply with LM80-08 standards ensuring life-span.

Mechanicals
[inches]
mm

input wires are non-polarized



Option with G5.3 Connector
Pins are non-polarized



Product Specifications

Warm White Models

ULE71NS0C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		2.2	
Luminous Flux	lumens		65	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS0C-02		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		4.4	
Luminous Flux	lumens		130	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS0C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		330	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS0C-03 HO K30C80L400		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		400	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			85	
Beam Angle	degrees		15	

ULE71NF0C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		2.2	
Luminous Flux	lumens		65	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NS0C-02		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		4.4	
Luminous Flux	lumens		130	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NS0C-03		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		330	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NF0C-03 HO K30C80L400		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		400	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71WF0C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		2.2	
Luminous Flux	lumens		65	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		45	

ULE71WF0C-02		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		4.4	
Luminous Flux	lumens		130	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		45	

ULE71WF0C-03		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		330	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		45	

ULE71WF0C-03 HO K30C80L400		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		400	
Color Temperature	°K		3000	
Color Rendering Index (CRI)			85	
Beam Angle	degrees		45	

Neutral White Models

ULE71NS0C-03 K30C85L330		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		330	

Color Temperature	°K	4000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	15		

ULE71NS0C-03 HO K40C60L450		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	450		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	15		

ULE71NF0C-03 K40C85L330		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	330		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	30		

ULE71NF0C-03 HO K40C60L450		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	450		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	30		

ULE71WF1C-03 K40C85L330		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	330		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	45		

ULE71WF1C-03 HO K40C60L450		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	450		

Color Temperature	°K	4000
Color Rendering Index (CRI)		85
Beam Angle	degrees	45

Cool White Models

ULE71NS1C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		2.2	
Luminous Flux	lumens		80	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS1C-02		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		4.4	
Luminous Flux	lumens		160	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS1C-03		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		240	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS1C-03 HO K60C80L400		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		400	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		15	

ULE71NS1C-03 HO K60C60L450		Min	Typical	Max
Input Voltage	volts	10	12	14

Total Power	watts	6.5
Luminous Flux	lumens	450
Color Temperature	°K	6000
Color Rendering Index (CRI)		65
Beam Angle	degrees	15

ULE71NF1C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		2.2	
Luminous Flux	lumens		80	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NF1C-02		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		4.4	
Luminous Flux	lumens		160	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NF1C-03		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		240	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NF1C-03 HO K60C80L400		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts		6.5	
Luminous Flux	lumens		400	
Color Temperature	°K		6000	
Color Rendering Index (CRI)			80	
Beam Angle	degrees		30	

ULE71NF1C-03 HO K60C60L450		Min	Typical	Max
Input Voltage	volts	10	12	14

Total Power	watts	6.5
Luminous Flux	lumens	450
Color Temperature	°K	6000
Color Rendering Index (CRI)		65
Beam Angle	degrees	30

ULE71WF1C-01		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	2.2		
Luminous Flux	lumens	80		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
Beam Angle	degrees	45		

ULE71WF1C-02		Min	Typical	Max
Input Voltage	volts	10	12	14
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Luminous Flux	lumens	160		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
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ULE71WF1C-03		Min	Typical	Max
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Total Power	watts	6.5		
Luminous Flux	lumens	240		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
Beam Angle	degrees	45		

ULE71WF1C-03 HO K60C80L400		Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	400		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
Beam Angle	degrees	45		

ULE71WF1C-03 HO K60C60L450		Min	Typical	Max

Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Luminous Flux	lumens	450		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	45		

Typical Environmental Specifications	
Operating Temperature	-20°C to 50°C
Thermal Management	Extended Heat-sink required
Lumens Maintenance at L70*	>50,000 hours

*Warranty for 35,000 hours or 5 years, whichever comes first.