

ULE7100HS Series



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The OptoElectronix[™] ULE7100HS Light Engine consists of an LED light source with optics and thermal management together with a power module. Designed as a reliable MR16 bulb replacement, it is the diameter of standard MR16s and has a GU5.3 bi-pin. The ULE7100HS works can be powered by any 12V AC or DC source. Its integrated driver provides constant current to the LEDs across a typical working range of input voltages. Its optical performance 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 is available. It is available in warm, neutral or cool white.

Features

- No filaments, vibration proof
- Sealed construction
- Water-resistant
- Focused directional beam
- 12V AC/DC input
- 5 year warranty
- Easy installation

Key Applications

This LED Light Engine is primarily designed to replace incandescent and halogen bulbs which have much shorter life-spans and higher power consumption. It is also suitable for harsh environments such as those characterized by vibration, dust, oil and contaminants. A steel safety cable is included for overhead mounting. It can be use in a variety of applications such as interior down lights, and illumination for elevators, rooms, corridors, lobbies, garden lamps, etc.

Thermal Management

The ULE7100HS has an integrated heat sink for reliable operation. It is designed using thermal profiling and simulation so that the LEDs are operated below their maximum temperature range, hence ensuring a prolonged life-span.

Certifications and Completed Tests

RoHS: Compliant

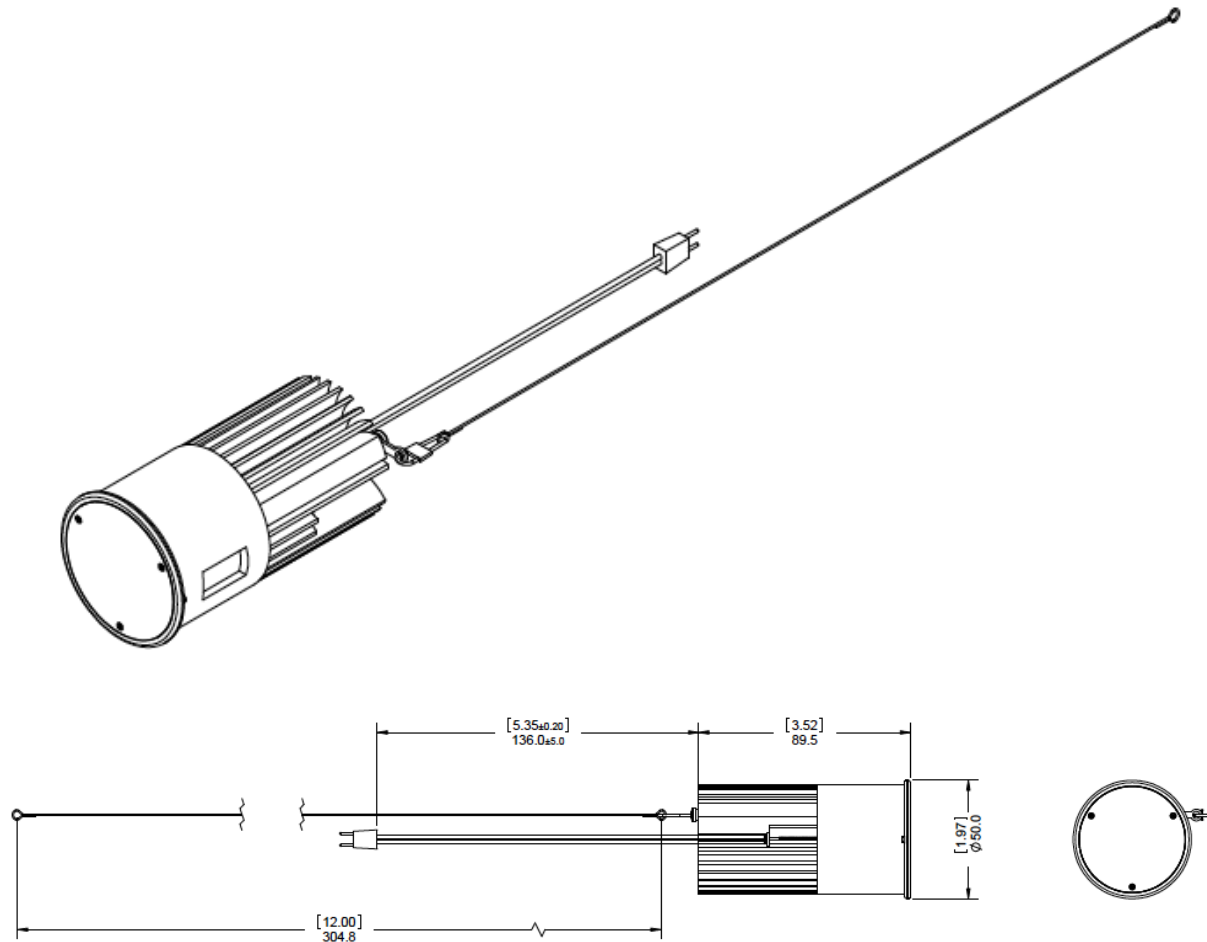
Ingress Protection Rating: IP66 – dust tight and protected against powerful water jets.

IESNA LM80-08: LEDs used comply with LM80-08 standards ensuring life-span.

Mechanicals

[inches]

mm



Product Specifications

Warm White Models

ULE71NS0C-03-HS	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	330		
Color Temperature	°K	3000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	15		

ULE71NF0C-03-HS	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	330		
Color Temperature	°K	3000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	30		

ULE71WF0C-03-HS	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	330		
Color Temperature	°K	3000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	45		

ULE71NS0C-03-HS HO K30C80L400	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	400		
Color Temperature	°K	3000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	15		

ULE71NS0C-03-HS HO K30C80L400	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	400		
Color Temperature	°K	3000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	30		

ULE71WFOC-03-HS HO K30C80L400	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	400		
Color Temperature	°K	3000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	45		

Neutral White Models

ULE71NS1C-03-HS K40C85L330	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	330		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	15		

ULE71NF1C-03-HS K40C85L330	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	330		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	30		

ULE71WF1C-03-HS K40C85L330	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	330		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		85		
Beam Angle	degrees	45		

ULE71NS1C-03-HS HO K40C60L450	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	450		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	15		

ULE71N10C-03-HS HO K40C60L450	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	450		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	30		

ULE71WF1C-03-HS HO K40C60L450	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.5		
Power Factor		0.8		
Luminous Flux	lumens	450		
Color Temperature	°K	4000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	45		

Cool White Models

ULE71NS1C-03-HS	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.6		
Power Factor		0.8		
Luminous Flux	lumens	240		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
Beam Angle	degrees	15		

ULE71NF1C-03-HS	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.6		
Power Factor		0.8		
Luminous Flux	lumens	240		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
Beam Angle	degrees	30		

ULE71WF1C-03-HS	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.6		
Power Factor		0.8		
Luminous Flux	lumens	240		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		80		
Beam Angle	degrees	45		

ULE71NS1C-03-HS HO K60C60L450	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.6		
Power Factor		0.8		
Luminous Flux	lumens	450		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	15		

ULE71NF1C-03-HS HO K60C60L450	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.6		
Power Factor		0.8		
Luminous Flux	lumens	450		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	30		

ULE71WF1C-03-HS HO K60C60L450	Unit	Min	Typical	Max
Input Voltage	volts	10	12	14
Total Power	watts	6.6		
Power Factor		0.8		
Luminous Flux	lumens	450		
Color Temperature	°K	6000		
Color Rendering Index (CRI)		65		
Beam Angle	degrees	45		

Typical Environmental Specifications	
Operating Temperature	-10°C to 50°C
Thermal Management	Self-cooled, Integrated convection
Lumens Maintenance at L70*	>50,000 hours

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