

# LK-LR6-230V

## Recessed Downlight Dimmable LED Luminaire

### Product Description

The LR6-230V generates white light with LED's in a new way that enables an unprecedented combination of light output, high efficacy, beautiful color, and affordability. U.S. Patent # 7,213,940 issued. Numerous patents pending.

### Performance Summary

- Nominal delivered light output = 650 lumens
- Nominal input power = 12 Watts
- Ra 95
- CCT = 2700k or 3500K
- Dimmable to 20%

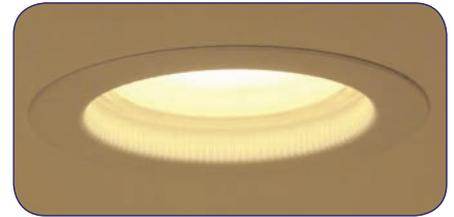
### Ordering Information

- **LR6-230V** Incandescent Color (2700K),
- **LR6C-230V** Neutral Color (3500K),

### Accessories - Reference individual accessory spec sheets for more detail

#### Accessory Trims

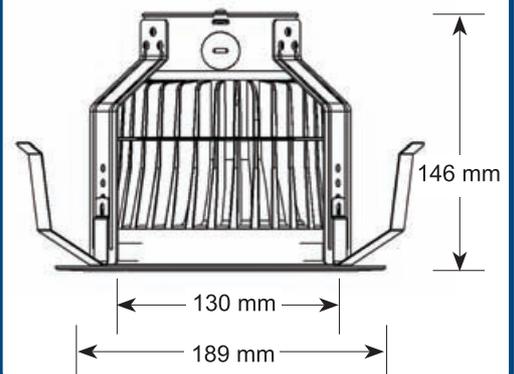
- **LT6A** - Diffuse anodized trim
- **LT6AW** - Wheat diffuse anodized trim
- **LT6AP** - Pewter diffuse anodized trim
- **LT6AB** - Black diffuse anodized trim
- **LT6WH** - Smooth white trim
- **LT6AG** - Graphite diffuse anodized trim
- **LT6AM** - Mocha diffuse anodized trim



LR6-230V



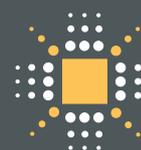
LR6C-230V



LED Lighting Solutions

SOUTH AFRICAN OFFICE:  
P.O. BOX 92516 • NORWOOD • JOHANNESBURG • SOUTH AFRICA • 2117  
TEL: +27 (0) 11 728-1249 • FAX: +27865 024 111  
EMAIL: CTHELIGHT@LIGHTKINETICS.COM

[WWW.LIGHTKINETICS.COM](http://WWW.LIGHTKINETICS.COM)

 **LIGHT KINETICS**  
*Sustainable Lighting & Energy Solutions*

# LK-LR6-230V

# Recessed Downlight Dimmable LED Luminaire

## Specifications and Features

### Light Emitting Diodes

- Cree proprietary technology delivers uniform, high-quality, white light
- Designed to last 50,000 hours - maintains at least 70% of initial lumen output
- Active color management system maintains color consistency
- Emits no ultraviolet radiation

### Construction

- Durable die-cast aluminum upper housing, lower housing, and upper cover
- Integrated thermal management system conducts heat away from LED and transfers it to the surrounding environment. LED junction temperatures stay below specified maximums when installed in attic insulation with temperatures exceeding 60 degrees Celsius.

### Optical System

- Proprietary optical system utilizes a unique combination of reflective and refractive optical components to achieve a uniform, comfortable appearance. Pixelation and direct view of uncomfortable LEDs is eliminated.
- White Lower Reflector balances brightness of refractor with the ceiling to create comfortable high-angle appearance. Works with refractor to deliver an optimized distribution that illuminates walls and vertical surfaces increasing the sense of spaciousness.

### Electrical System

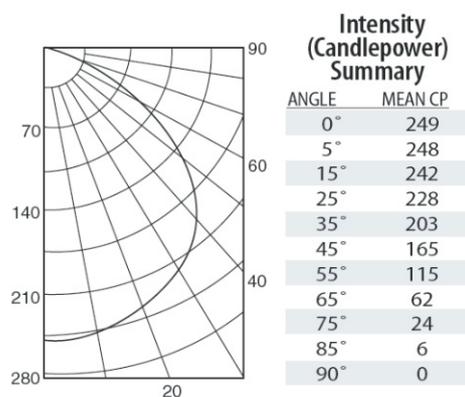
- Integral, high efficiency driver and power supply. Power factor > 0.90 Input voltage = 220V to 240V, 50Hz
- Controllable with most reverse phase dimmers (reference [www.creeLLS.com](http://www.creeLLS.com) for recommended dimmers)

### Regulatory

- CE, complies to EN60598
- RoHS Compliant

## Photometry

LR6 – 230V, Incandescent Color (2700K),  
Lighting Sciences Inc. Certified Test #22226



### Zonal Lumen Summary

ZONE	LUMENS	%LAMP	%FIX
0° - 30°	196	30.39	30.39
0° - 40°	323	49.94	49.94
0° - 60°	553	85.35	85.35
0° - 90°	647	100.00	100.00

## Installation

- Designed to easily install in 165mm diameter ceiling opening
- Integral spring clips engage with ceiling to hold luminaire in place



## LED Lighting Solutions

## Application Comparison

### Room

	2m x 2m Spacing		1.5m x 1.5m	
	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance
LR6	141	73	182	124
65W BR30 White Baffle	132	55	177	95
18W CFL White Baffle	147	72	194	123
50W PAR30 White Baffle	156	28	227	53

Notes:  
Average initial illuminance in lux, reflectances = 80/50/30, workplane height = 0.75m, ceiling h = 2.75m  
Nine lights per room. Room sizes = 6m x 6m; 4.5m x 4.5m

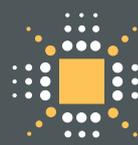
### Hallway

	2m Spacing		3m Spacing	
	Workplane Illuminance	Wall Illuminance	Workplane Illuminance	Wall Illuminance
LR6	109	62	74	42
65W BR30 White Baffle	108	48	74	33
18W CFL White Baffle	114	62	78	42
50W PAR30 White Baffle	163	24	110	17

Notes:  
Average initial illuminance in lux, reflectances = 80/50/30, workplane height = 0.75m, ceiling h = 2.75m  
Six lights per corridor, corridor width = 2m

SOUTH AFRICAN OFFICE:  
P.O. BOX 92516 • NORWOOD • JOHANNESBURG • SOUTH AFRICA • 2117  
TEL: +27 (0) 11 728-1249 • FAX: +27865 024 111  
EMAIL: [CHELIGHT@LIGHTKINETICS.COM](mailto:CHELIGHT@LIGHTKINETICS.COM)

[WWW.LIGHTKINETICS.COM](http://WWW.LIGHTKINETICS.COM)



LIGHT KINETICS

Sustainable Lighting & Energy Solutions