LE6™

Product Description

The LE6 is an adjustable downlight module for new construction and retrofit that installs easily in most standard six inch recessed IC or non-IC housings. The LE6 can be adjusted from 10 to 30 degrees, allowing the user to smoothly wash a wall. The LE6 generates white light with LEDs 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

- Utilizes Cree TrueWhite® Technology
- Delivered Light Output = 500 Lumens (at 30 degrees tilt)
- Input Power =12 Watts
- CCT = 2700K or 3500K
- CRI = 90
- Dimmable to 20%
- Five Year Warranty

Ordering Information

- **LE6** - 120V, Incandescent Color (2700K), Edison Base (STANDARD)
- **LE6-GU24** - 120V, Incandescent Color (2700K), GU24 Base
- **LE6C** - 20V, Neutral Color (3500K), Edison Base
- **LE6C-GU24** - 120V, Neutral Color (3500K), GU24 Base

Accessories - Reference accessory product information sheets for more detail

Housings

- **H6** - Architectural
- **RC6** - New construction
- **RR6** - Retrofit
- **SC6** - Surface mount
- **SC6-CM** - Cord mount
- **SC6-WM** - Wall mount

LE6

CREE TRUE WHITE TECHNOLOGY

c(UL)us LISTED

CREE® LED Lighting
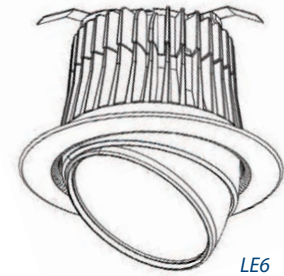
Product Information

Cree TrueWhite® Technology

- A better way to generate white light that utilizes a patented mixture of unsaturated yellow and saturated red LEDs.
- Tuned to optimal color point before shipment.
- Color management system maintains color consistency over time and temperature.
- Designed to last 50,000 hours and maintain at least 70% of initial lumen output.

Construction

- Integrated thermal management system conducts heat away from LEDs 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 unshielded LEDs are eliminated. Designed to wash a wall with light.

Electrical System

- Integral, high efficiency driver and power supply.
- Power factor >0.9
- Input voltage = 120V, 60Hz.
- Dimmable to 20% with most incandescent dimmers (reference www.CreeLEDLighting.com for recommended dimmers).

Regulatory

- cULus Listed®. Suitable for damp locations.
- Suitable for insulated or non-insulated ceilings.

Photometry

LE6 ITL Test #61449
Tilted to 30º
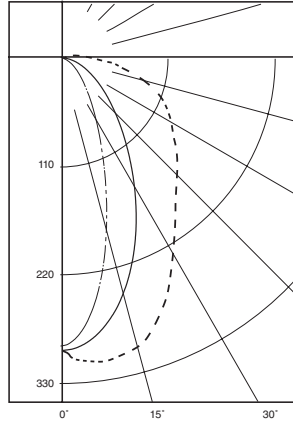
LEGEND:
0-deg: – – – – –
90-deg: ———————
180-deg: – · – · – · –

Intensity (Candlepower) Summary

ANGLE	0°	90°	180°
0°	299	299	299
5°	312	293	270
15°	304	250	177
25°	256	181	91
35°	206	120	43
45°	170	82	17
55°	145	54	0
65°	117	30	0
75°	81	14	0
85°	50	3	0
90°	40	0	0
95°	30	0	0
105°	13	0	0

Zonal Lumen Summary

ZONE	LUMENS	%FIX
0°- 30°	182	36.3
0°- 40°	262	52.3
0°- 60°	393	78.8
0°- 90°	487	97.6
0°-180°	500	100

Installation

- Designed to easily install in standard 6" downlight housings from Cree and other manufacturers.*
- Quick install system utilizes a unique retention feature. Attach socket to module. Adjust module to ready.
- Position and slide into housing. Rotate module 1/4 turn to the right to lock in place.
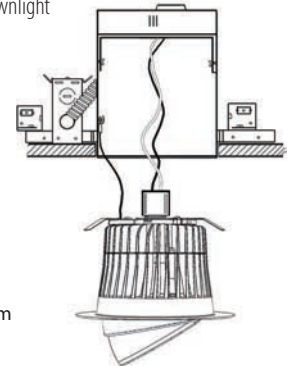
* Reference www.CreeLEDLighting.com for housing compatibility.

Application Information

Spacing	Luminares 3' from wall on 3' centers	
	Footcandle Values	
Height	Between Centers	On Centers
10	13	13
9	18	18
8	18	18
7	15	15
6	13	13
5	11	11
4	9	9
3	8	8
2	7	7
1	6	6

Spacing	Luminares 3' from wall on 4' centers	
	Footcandle Values	
Height	Between Centers	On Centers
10	8	10
9	12	14
8	13	13
7	11	11
6	9	9
5	8	8
4	7	7
3	6	6
2	5	5
1	5	5

Notes: Average initial illuminace in footcandles, reflectances = 80/50/30, celing height = 10', based on minimum of 5 luminares, placed in a hallway with width = 6', aimed at center points 3' and 4' apart respectively