

Features and Benefits

- Light source: 1 piece 4W AC LED
- Superior lumens maintenance of 70% after 25,000 hours of use
- Short candelabra bulb type
- Low heat, less than 65°C for 4W
- No UV or IR light radiation
- Instant "ON" to 100% brightness
- No mercury or other inorganic
- Clear polycarbonate lens with patented flame optics
- Highest luminous efficacy: up to 68lm/w for cool white color
- Die cast aluminum heat fins with excellent thermal efficiencies
- Available color temperatures:
2600K – 3000K (Warm White)
4000K – 5000K (Natural White)
5000K – 6000K (Cool White)
- 4W LED bulb can achieve directional light output equal to 25W incandescent candle bulb
- 2 year limited warranty (see page 6)
- Direct replacement of traditional candle bulb



Note: Picture for illustration only



DIMMING RANGE

20%



100%

Typical Applications

- Energy Saving Programs
- Sustainable Energy
- Chandelier Lighting
- Sconce Lighting
- Bath and Vanity Lighting
- Mood Lighting

PRELIMINARY

PRODUCT SPECIFICATIONS

LIGHT SOURCE	1X 4W AC power LED
OPTICS	Patented flame optics with clear lens
BULB TYPE	short candelabra
BEAM ANGLE	approx 200° (Flood)
RENDERING INDEX (Ra)	≥ 80 (warm white) ≥ 75 (warm white) ≥ 75 (cool white)
TOTAL LENGTH	See below (page 2)
WEIGHT	38 ± 2 g
HEATSINK	Die cast aluminum with white finish
BASE TYPE	E12 / BA15d / E14 / E17
DIMMABILITY	Dimmable

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	Ambient: -20°C to 40°C ; Surface of Lamp: 60°C to 70°C
HUMIDITY RANGE	0 to 95% non-condensing humidity

ELECTRICAL SPECIFICATIONS

VOLTAGE REQUIREMENT	110 or 230V AC
POWER CONSUMPTION	Typical 3.5W
POWER FACTOR	≥ 0.9

PRODUCT DIMENSIONS (mm)

Clear Short Candle (CSC35)

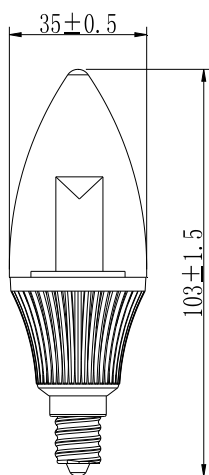


Fig 1. E12

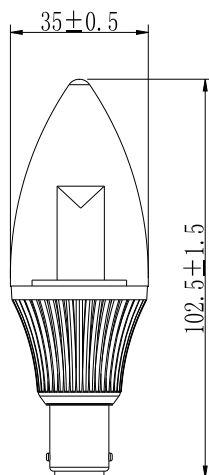


Fig 2. BA15d

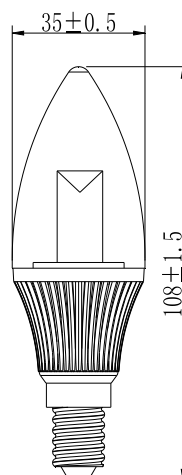


Fig 3. E14

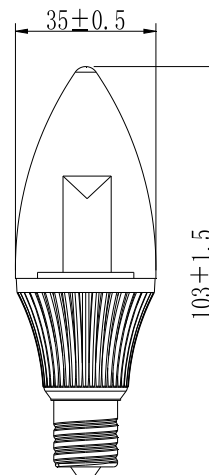


Fig 4. E17

CLEAR CANDLE ORDERING CODE

ORDER CODE	Light Color	Color Temp (°K)	Base Type	Operating Voltage	Lamp Power (W)	Typical Luminous Flux (lm)	Typical Illuminance @ 2m (Lux)	BEAM ANGLE
CSC35WE174120/SAC	Cool White	5000K~6000K	E17	100~130 VAC	3.5W	310 lm ±5%	n/a	200° ±2°
CSC35NE174120/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VE174120/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WE174230/SAC	Cool White	5000K~6000K		220~240 VAC		310 lm ±5%	n/a	
CSC35NE174230/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VE174230/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WE144120/SAC	Cool White	5000K~6000K	E14	100~130 VAC	3.5W	310 lm ±5%	n/a	200° ±2°
CSC35NE144120/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VE144120/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WE144230/SAC	Cool White	5000K~6000K		220~240 VAC		310 lm ±5%	n/a	
CSC35NE144230/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VE144230/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WE124120/SAC	Cool White	5000K~6000K	E12	100~130 VAC	3.5W	310 lm ±5%	n/a	150° ±2°
CSC35NE124120/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VE124120/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WE124230/SAC	Cool White	5000K~6000K		220~240 VAC		310 lm ±5%	n/a	
CSC35NE124230/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VE124230/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WB154120/SAC	Cool White	5000K~6000K	BA15d	100~130 VAC	3.5W	310 lm ±5%	n/a	200° ±2°
CSC35NB154120/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VB154120/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	
CSC35WB154230/SAC	Cool White	5000K~6000K		220~240 VAC		310 lm ±5%	n/a	
CSC35NB154230/SAC	Nat. White	4000K~5000K				300 lm ±5%	n/a	
CSC35VB154230/SAC	Warm White	2600K~3000K				220 lm ±5%	n/a	

PRODUCT DIMENSIONS (mm)

Diffused Short Candle (CS35)

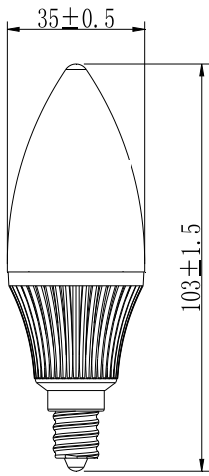


Fig 1. E12

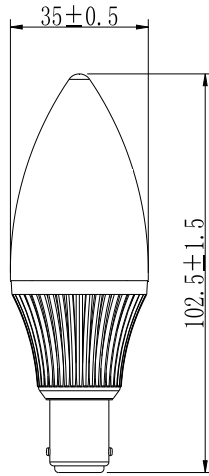


Fig 2. BA15d

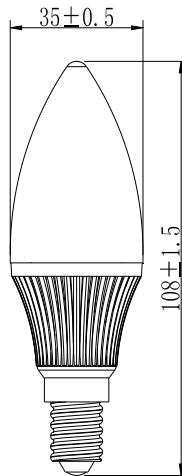


Fig 3. E14

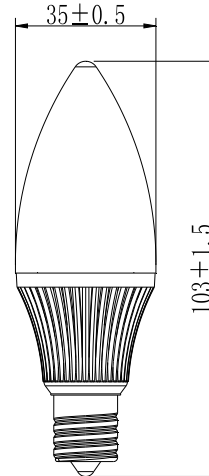


Fig 4. E17

DIFFUSED CANDLE ORDERING CODE

ORDER CODE	Light Color	Color Temp (°K)	Base Type	Operating Voltage	Lamp Power (W)	Typical Luminous Flux (lm)	Typical Illuminance @ 2m (Lux)	BEAM ANGLE
CS35WE174120/SAC	Cool White	5000K~6000K	E17	100~130 VAC	3.5W	330 lm ±5%	n/a	180° ±2°
CS35NE174120/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VE174120/SAC	Warm White	2600K~3000K		250 lm ±5%		n/a		
CS35WE174230/SAC	Cool White	5000K~6000K		220~240 VAC		330 lm ±5%	n/a	
CS35NE174230/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VE174230/SAC	Warm White	2600K~3000K				250 lm ±5%	n/a	
CS35WE144120/SAC	Cool White	5000K~6000K	E14	100~130 VAC	3.5W	330 lm ±5%	n/a	180° ±2°
CS35NE144120/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VE144120/SAC	Warm White	2600K~3000K		250 lm ±5%		n/a		
CS35WE144230/SAC	Cool White	5000K~6000K		220~240 VAC		330 lm ±5%	n/a	
CS35NE144230/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VE144230/SAC	Warm White	2600K~3000K				250 lm ±5%	n/a	
CS35WE124120/SAC	Cool White	5000K~6000K	E12	100~130 VAC	3.5W	330 lm ±5%	n/a	180° ±2°
CS35NE124120/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VE124120/SAC	Warm White	2600K~3000K		250 lm ±5%		n/a		
CS35WE124230/SAC	Cool White	5000K~6000K		220~240 VAC		330 lm ±5%	n/a	
CS35NE124230/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VE124230/SAC	Warm White	2600K~3000K				250 lm ±5%	n/a	

DIFFUSED CANDLE ORDERING CODE

ORDER CODE	Light Color	Color Temp (°K)	Base Type	Operating Voltage	Lamp Power (W)	Typical Luminous Flux (lm)	Typical Illuminance @ 2m (Lux)	BEAM ANGLE
CS35WB154120/SAC	Cool White	5000K~6000K	BA15d	100~130 VAC	3.5W	330 lm ±5%	n/a	180° ±2°
CS35NB154120/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VB154120/SAC	Warm White	2600K~3000K				250 lm ±5%	n/a	
CS35WB154230/SAC	Cool White	5000K~6000K		220~240 VAC		330 lm ±5%	n/a	
CS35NB154230/SAC	Nat. White	4000K~5000K				310 lm ±5%	n/a	
CS35VB154230/SAC	Warm White	2600K~3000K				250 lm ±5%	n/a	

Typical Electrical Characteristics at T_a=25°C
4W Model

Parameter	Symbol	Min	Typ	Max	Unit
Input Voltage (120V AC)	V _{AC}	100	—	130	V
Input Voltage (230V AC)	V _{AC}	200	—	240	V
Lamp Input Current @230V	I _F	—	17	—	mA
Estimated usable Life ^[*]		—	25,000	—	hours
Optimized Body Temperature	T	—	65	70	°C

Note[*] – Manufacturer projects mini candle lamp made with AC LED to maintain an average of 70% lumens maintenance after 25,000 hours. This estimation is made based on data from LED manufacturer

PRELIMINARY

LIMITED WARRANTY

Manufacturer warrants to the Purchaser that each Product manufactured and sold by it will be free from defects in material and workmanship in its intended use (normal wear and tear excepted) for the period of two year from manufactured date. Manufacturer's warranty flows only to Purchaser. If any Product covered by this warranty is returned by Purchaser in accordance with Manufacturer's Products Return Policy, including without limitation its return authorization provisions, within the applicable warranty period set forth above, and upon examination Manufacturer determines to its satisfaction that such Product was defective in material or workmanship at the time of delivery to the Purchaser, Manufacturer will, at its option, repair or replace the Product or the defective part thereof, or reimburse Purchaser for the purchase price. For purposes of clarity, "repair or replace the Product or the defective part thereof" does not include any reinstallation costs or expenses. If Manufacturer chooses to replace the Product and is not able to do so because it has been discontinued or is not available, Manufacturer may replace it with a comparable product. The Products Return Policy is posted on Manufacturer's Internet web site at http://www.brilliance-led.com/En_terms_conditions.asp. The foregoing notwithstanding, Manufacturer will not be responsible for damage to any Product resulting from misuse, negligence, acts of God or accident or resulting from repairs or alterations made by any person or firm not duly authorized by Manufacturer in writing. Purchaser shall convey with each Product distributed to end users the MANUFACTURER'S LIMITED WARRANTY included by Manufacturer with such Product, and, if Manufacturer determines that the appropriate remedy for a defective product is refund of Purchaser's purchase price, Purchaser shall refund to the end user (or arrange for the refund to the end user of) the full purchase price paid by the end user for such defective Product.

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4W Mini LED – CSC35 and CS35/SAC Rev. 1.0a
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