



# HIGH PERFORMANCE LED BULBS

Commercial  
Industrial  
Retail

- Available in performance or high output
- CREE™ LED
- PAR, E12/E26, MR & A types
- C UL Us certified
- Fully modular design
- Digital dimmable drivers
- IP6X rating
- Very low junction temperatures
- Solid Aluminium extrusion heatsink
- Low loss optical path



# LED Bulbs

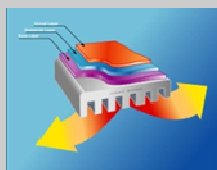
Performance series

## Features

- CREE™ LED
- Up to 1250 hot lm for 17W (PAR38 model)
- 2600 to 7000K available color temperature
- High performance single lens design with precision focal plane
- Aluminium heatsink extrusion for incredible thermal management
- Digital internal driver with PF correction & low THD (Dimmable)
- Fully modular with field serviceable driver & LED board
- Fully protected supply with thermal, current and overload protection
- Very Low Cap Count (VLCC driver) with 105°C rating
- Dustproof IP6X
- Available in all common types
- Very low junction temperatures

## Options

- Dimming capable with Triac LEDIM/TEDIM controllers
- Various lensing options
- Custom finish & trim available
- Clear or frosted for E12 & E26 base models
- Thermal rollback auto setting for harsh applications



# LED Bulbs

Performance series

## Bulb types

Candelabra E12/E26



G16.5 E12/E26



MR16 GU5.3



MR16 GU10



PAR16



PAR20



PAR30



PAR38



Globe A19



AR111 GU10



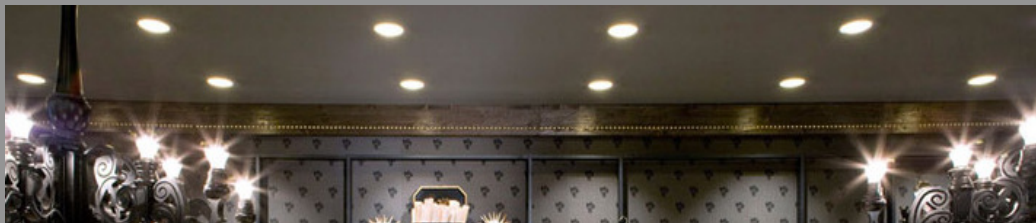
# LED Bulbs

## Performance series

### Specifications

Parameter	Models						
	LR-E12-5W-xx	LR-G16-5W-xx	LR-MR16-4W-xx	LR-MR16-8W-xx	LR-MR16-8W-xx	LR-GU10-6W-xx	LR-GU10-8W-xx
Wattage (W)	5	5	4	8	8	6	8
Input voltage (V)	120AC	120AC	AC/DC 12	AC/DC 12	AC/DC 12	120AC	120AC
Input freq. (Hz)	50-60	50-60	DC-90KHz	DC-90KHz	DC-90KHz	50-60	50-60
Power factor (PF)	>60	>60	Na	Na	Na	>92	>95
Distortion % (AC110V)	<23%	<23%	Na	Na	Na	<20%	<22%
Efficacy (lm/w)							
2800K	>64	>64	>71	>52	>53	>56	>51
4200K	>69	>69	>77	>58	>57	>63	>57
6500K	>73	>73	>87	>76	>62	>73	>75
Exit hot lumen @ 30°C Ta							
2800K	320	320	285	420	425	340	415
4200K	345	345	310	470	460	380	460
6500K	365	365	350	610	500	440	600
CCT available 2600-7000K	YES	YES	YES	YES	YES	YES	YES
Color rendering (Ra) typ. (3000K)	80	80	>82	>82	>82	>82	>82
LED Life (L70) hrs @ Ta 30°C	45000	45000	45000	45000	45000	45000	45000
Operating temp °C	-20~+40	-20~+40	-20~+40	-20~+40	-20~+40	-20~+40	-20~+40
Driver protection overvoltage/current	No	No	Yes	Yes	Yes	Yes	Yes
Driver protection shorts	No	No	Yes	Yes	Yes	Yes	Yes
Driver protection thermal	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low EMI, RFI per FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LED Junction Temp. Tj @ Ta 30°C	<79°C	<77°C	<85°C	<83°C	<80°C	<86°C	<86°C
Dimmable	Yes	Yes	No	Yes	Yes	Yes	Yes
Lens options degrees (40° standard)	No	No	15/30/40/60	15/30/40/60	30/40/60	15/30/40/60	15/30/40/60
Clear or frosted avail.	Yes	Yes	No	No	No	No	No
Driver temperature after 120min.	46°C	48°C	47°C	48°C	42°C	49°C	47°C
LED type	SMD	SMD	SMD	COB	SMD	SMD	COB
Housing type Extruded Aluminum IP6X	No	No	Yes	Yes	Yes	Yes	Yes
Field serviceable driver S (Sealed)	No	No	No	Yes	Yes	No	Yes
Bases (L for long)	E12-E26	E12-E26	GU5.3	GU5.3	GU5.3L	GU10	GU10L
Diameter Ø X L (mm)	36/96	49/74	49.5/53	49.5/70	49.5/80	49.5/64	49.5/87
Weight net (g)	60	58	52	110	115	85	120
Warranty*	3 years	3 years	3 years	3 years	3 years	3 years	3 years

\*As per LEDRays Inc. warranty statement. Specifications subject to change without notice.



# LED Bulbs

## Performance series

### Specifications

Parameter	Models						
	LR-GU10-8W-xx	LR-PAR16-6W-xx	LR-PAR20-8W-xx	LR-PAR30-12W-xx	LR-PAR38-17W-xx	LR-A19-9W-xx	LR-AR111-12W-xx
Wattage (W)	8	6	8	12	17	8	12
Input voltage (V)	120AC	120AC	120AC	120AC	120AC	120AC	120AC
Input freq. (Hz)	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Power factor (PF)	>92	>92	>92	>92	>92	>92	>92
Distortion % (AC110V)	<22%	<21%	<20%	<19%	<22%	<25%	<20%
Efficacy (lm/w)							
2800K	>53	>57	>53	>48	>58	>75	>53
4200K	>57	>63	>57	>52	>63	>86	>58
6500K	>62	>73	>62	>82	>73	>95	>64
Exit hot lumen @ 30°C Ta							
2800K	425	345	430	575	990	680	640
4200K	460	380	460	630	1080	780	705
6500K	500	440	500	690	1250	860	770
CCT available 2600-7000K	YES	YES	YES	YES	YES	YES	YES
Color rendering (Ra) typ. (3000K)	>82	>82	>82	>82	>82	>82	>82
LED Life (L70) hrs @ Ta 30°C	45000	45000	45000	45000	45000	45000	45000
Operating temp °C	-20~+40	-20~+40	-20~+40	-20~+40	-20~+40	-20~+40	-20~+40
Driver protection overvoltage/current	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Driver protection shorts	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Driver protection thermal	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low EMI, RFI per FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LED Junction Temp. Tj @ Ta 30°C	<82°C	<81°C	<82°C	<82°C	<80°C	<86°C	<86°C
Dimmable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lens options degrees (40° standard)	30/40/60	30/40/60	30/40/60	30/40/60	30/40/60	30/40/60	30/40/60
Clear or frosted avail.	No	No	No	No	No	No	No
Driver temperature after 120min.	42°C	41°C	44°C	42°C	40°C	49°C	47°C
LED type	SMD	SMD	SMD	SMD	SMD	SMD	COB
Housing type Extruded Aluminum IP6X	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Field serviceable driver S (Sealed)	Yes	Yes	Yes S	Yes S	Yes S	Yes	Yes
Bases (L for long)	GU10L	E12/E26	E26	E26	E26	E26	GU10
Diameter Ø X L (mm)	49.5/90	49.5x74	63/87	94.5/107	119.5/127	62/110	111/65
Weight net (kg)	135	169	176	310	487	175	290
Warranty*	3 years	3 years	3 years	3 years	3 years	3 years	3 years

\*As per LEDRays Inc. warranty statement. Specifications subject to change without notice.

