TivoLED PAR series multi-LED bulbs are line- voltage LED illumination sources to replace standard incandescent or fluorescent lamps.

TIVOLED®
PAR SERIES
MULTI-LED BULBS

FEATURES

- Energy efficient lighting for interior and exterior applications
- No additional wiring required, uses medium base socket.
- Voltage input: 120 VAC.
- Rugged design glass housing, excellent illumination and long product life up to 50,000 hours
- Retrofit for incandescent lamps in color temperatures of White and Warm White* with a 30˚ beam spread for spot illumination and 90° beam spread for flood
- Color temperatures range from
  2700°K to 3200°K for Warm White
  5000K to 9000K for White
- Edison 26, Medium base
- **PAR 20**
  Dimensions: Ø2.5" x 2.95"
  Wattage: 2W (30 LED) / 3W (42 LED)
  LED elements: 30 and 42
  Lumens: 56 (30 LED) / 75 (42 LED)
  Incandescent Equivalent: 15W (30 LED) / 25W (42 LED)
- **PAR 30**
  Dimensions: Ø3.74" x 3.23"
  Wattage: 6W
  LED elements: 60
  Lumens: 119
  Incandescent Equivalent: 40W
- **PAR 38**
  Dimensions: Ø4.8" x 4.8"
  Wattage: 8W (120 LED) / 12W (150 LED)
  LED elements: 120 and 150
  Lumens: 223 (120 LED) / 280 (150 LED)
  Incandescent Equivalent: 55W (120 LED) / 70W (150 LED)

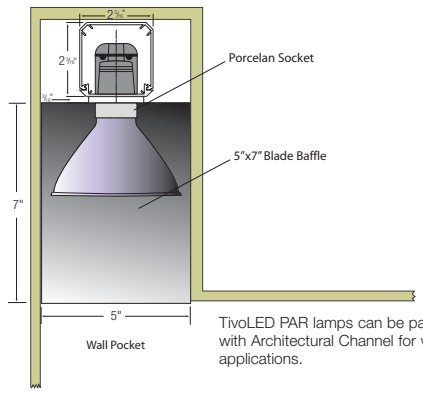
TIVOLED® Par 20 lamp (Part #: L-20-M-WW-120V-05.0)

TIVOLED® Par 30 lamp (Part #: L-30-M-WW-120V-06.0)

TIVOLED® Par 38 lamp (Part #: L-38-M-WH-120V-12.0)

LISTING

- ETL Listed



TivoLED PAR lamps can be paired with Architectural Channel for wall slot applications.

TIVOLED - PAR SERIES
ORDERING SPECIFICATION GUIDE

PRODUCT CODE	BULB SIZE	SOCKET BASE	LED COLOR	VOLTAGE	INTENSITY	BEAM FOCUS
L	20	M	WW	120	BT	30
L = TivoLED	20 = PAR 20 30 = PAR 30* 38 = PAR 38	M = Medium	WH = White WW = Warm White	120 = 120V	BT = Bright UB = Ultra Bright	30 = 30° Spot 90 = 90° Flood

* PAR 30 available in Bright intensity only

MTBF

Mean Time Between Failures (MTBF) for LEDs: Although Tivoli utilizes LEDs provided by industry-leading vendors, they are electrical components with calculated mean time between failure (MTBF).

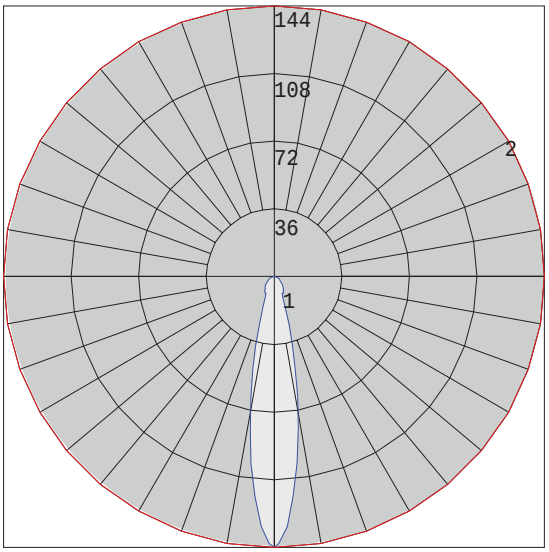
MTBF indicates the point at which 70% of the LEDs will fail under laboratory conditions. Conditions such as excessive voltage, vibration, heat, and other adverse environments may negatively affect the life of LEDs.

15602 Mosher Ave Tustin, CA 92780 • ph 714 957-6101 fx 714 427-3458 • www.tivolilighting.com / sales@tivolilighting.com

TIVOLED®
PAR SERIES
MULTI-LED BULBS

IES INDOOR REPORT
Par 30
Wattage: 6W (60 LED)

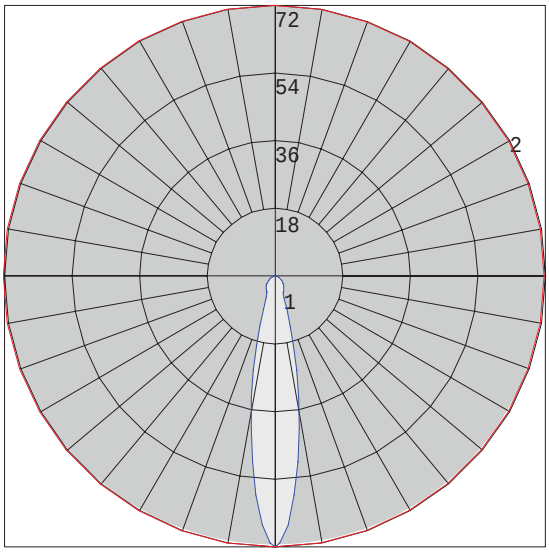
POLAR GRAPH



Maximum Candela = 144 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

IES INDOOR REPORT
Par 20
Wattage: 3W (30 LED)

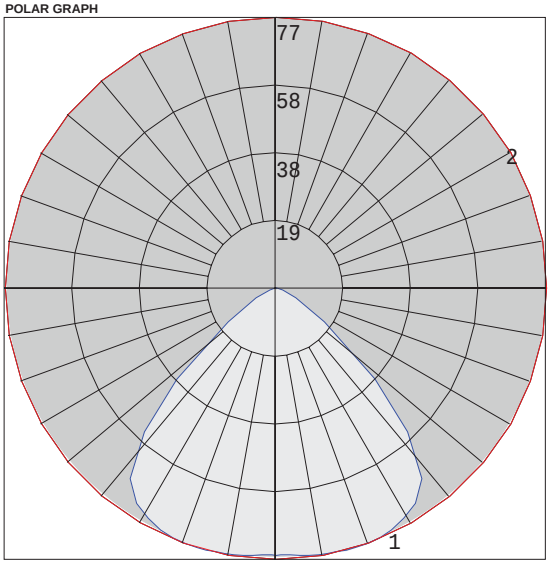
POLAR GRAPH



Maximum Candela = 71.6 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

IES INDOOR REPORT
Par 38
Wattage 12W (150 LED)

POLAR GRAPH



Maximum Candela = 76.7 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)

LED technology is changing rapidly. LED's are made in lots and sorted into bins based on wavelength ranges that achieve colors. Tivoli uses a range of 2500°k to 3100°k for warm white and 5000° to 6000°K for white. Individual orders will be bin-sorted to within plus or minus 200°k and it is recommended to purchase 10% replacement stock within that bin lot to ensure matched color for needed replacements.

15602 Mosher Ave Tustin, CA 92780 • ph 714 957-6101 fx 714 427-3458 • www.tivolilighting.com / sales@tivolilighting.com