



SPECIFICATION-GRADE

LED Traffic PAR38



Dielectric Grease



thermalARMOR

Product Overview

INTENDED USE: cityARCH | LPAR is a commercial-grade LED traffic PAR38 lamp engineered for uncompromising performance in Emergency Vehicle Pre-Emption (EVP) and traffic signal applications. Designed for direct installation into both existing and new EVP assemblies, the LPAR platform requires no modifications and is intended to support DOT-driven signal performance requirements. Built with **thermalARMOR** design principles to help manage heat in enclosed signal environments, LPAR supports consistent output and controlled beam options to maintain clear, reliable signal visibility while reducing maintenance versus legacy lamp technologies.

CONSTRUCTION: Built for enclosed traffic signal environments, LPAR is RoHS compliant and contains no lead or mercury. The lamp is specified as suitable for use in totally enclosed fixtures and is UL wet location listed to support reliable operation in demanding outdoor signal conditions. Operating temperature is specified at -4°F to 120°F (MDOT 900lm model has a -40°F to 165°F rating), supporting stable performance across common roadway and intersection environments.

OPTICS: LPAR delivers up to 1,500 lumens at 19W (80 lm/W at 3000K) with a high color rendering index of 93 to support accurate color appearance and strong visual clarity. Beam control is available in narrow flood and flood options to match fixture and application needs, with a specified beam angle of 25° for focused distribution.

ELECTRICAL: LPAR operates on 120Vac input and includes Triac dimming capability for compatible control scenarios. The lamp is specified as non-flicker with PF > 0.9, supporting stable operation and power quality. This device complies with Part 15 of the FCC Rules, supporting reduced interference in electrically dense traffic cabinet signal environments.

WARRANTY: Backed by a limited warranty of the lesser of 3 years after shipment or 25,000 hours of use, LPAR is designed to deliver dependable service life and long-term value in traffic signal and EVP applications.

ARCHIPELAGO luminaires and LED components undergo rigorous testing by an independent laboratory to meet IESNA LM-79 and LM-80 standards for light output and lumen maintenance. LED color temperature is warrantied to shift no more than 180K over the standard warranty period. Correlated Color Temperature (CCT) follows the guidelines set forth in the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Ordering Guide¹

Model Series	Lamp Type	Optics	Lumen Output	CCT	Generation
LPAR LED Traffic PAR38	38	Clear Optics	390	48K	1
	PAR38		390lm / 7W (White-Body)	4800K	Gen-1
			900	30K	
			900lm / 10W (Black-Body, MDOT listed)	3000K	
			1500		
			1500lm / 19W (White-Body)		

CATALOG #:

LPAR

NOTE: LPAR38C39048K1 is only available in 4800K / all other traffic PAR38s are only available in 3000K.

Project Details

Project Name:

Project Number:

Fixture Schedule:

Notes:

Applications



Bike Lane



Greenbelts



Highways



Walkways

Main Features

- Driver / Electrical Performance:** 120Vac input with Triac dimming supports compatible control scenarios. Performance is specified at PF > 0.9 with non-flicker operation, plus FCC Part 15 compliance to help minimize interference risk.
- High Color Quality:** CRI 93 supports accurate color appearance and strong visual clarity for traffic signal and EVP applications.
- Optical Control:** Specified 25° beam angle for controlled distribution.
- Easy Installation:** Designed for direct install into existing and new EVP assemblies with no modifications required.
- Rated for Signal Environments:** UL wet location listed and suitable for totally enclosed fixtures, with -4°F to 120°F (MDOT 900lm model has a -40°F to 165°F rating) operating range. RoHS compliant (no lead or mercury).

Product Warranty*



5-Year Warranty



25,000 Hrs

* Standard warranty. Extended warranty available.

