



*lighting your way*





# NAT MT-36 LED

## Maximum performance for regional and main roads.

Equipped with full LED package this version of the luminaire can reach peak performance with 36 high power LEDs.

Interlinking cities takes roads on a complex journey through lively cities and calmer countryside. Such roads usually present a challenge with varying geometry and user structure, therefore a luminaire must provide clear vision for every type of user, whether a pedestrian, cyclist, or a big truck.

A step up in luminance with diverse optical system is required to ensure such safe user navigation through a more complicated traffic network at moderately high and average speeds through different scenarios.

While the same luminaire can also pack a lower power with a higher luminous efficiency when such demands are needed and evaluated, to meet the requirements and lighting standards of a given road.





# Connecting the cities with NAIT MT-36 LED



## PERFORMANCE DATA

**System flux:** 4479,0 lm - 10035,0 lm

**System power:** 54,1 - 76,8 W

**CCT:** 2700 K, 3000 K, 4000 K

**CRI:**  $\geq 70$ ,  $\geq 80$

**Classification:** IEC protection class I / II, IP66, IK09

**Surge protection:** 10 kV (L/N-ground), 6 kV (L-N)

**Smart lighting:** Virtual midnight, AstroDIM,  
StepDIM, DALI

**On request:** 4-pin socket (ZHAGA book 18), CLO

**Overtime**

**performance:** L80B10 100.000 hours at  $T_a=25^\circ\text{C}$

**Certification:** ENEC, CE

## INSTALLATION

**Mounting device:** For pole spigots from  $\Phi 42$  to  $\Phi 60$  mm

**Fixation type:** post top / side entry

**Tilt angle:**  $0^\circ / \pm 5^\circ / \pm 10^\circ / \pm 15^\circ$

**Connecting:** IP66 fast connector (2/3 or 5 pole)

## FEATURES

**Net weight:** 6,20 kg

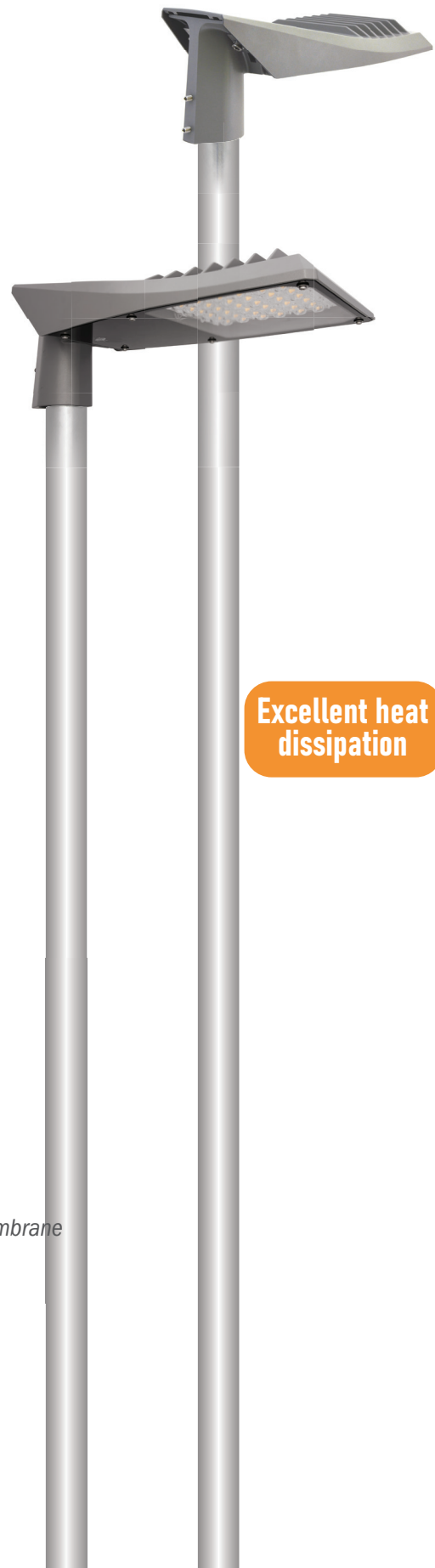
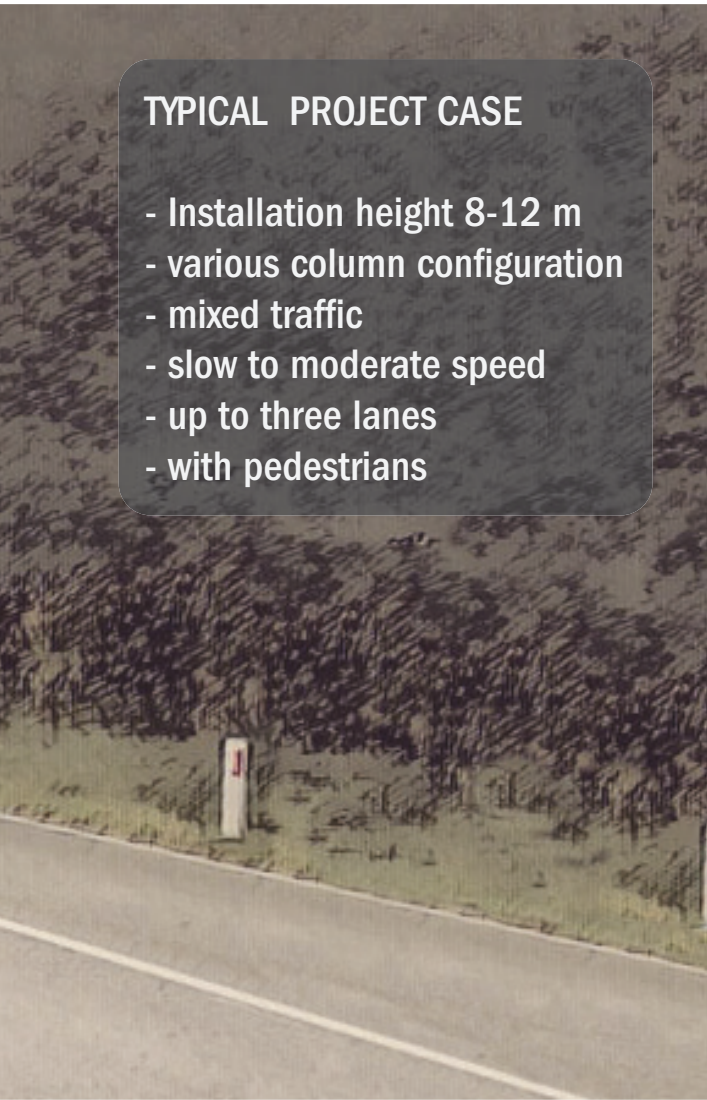
**Pre-wiring:** preinstalled with fast connector

- Default: 3-pin fast connector IP66 on  
0,2m 3G1 cable

- Optional: custom cable length with or  
without fast connector

## TYPICAL PROJECT CASE

- Installation height 8-12 m
- various column configuration
- mixed traffic
- slow to moderate speed
- up to three lanes
- with pedestrians



Excellent heat  
dissipation

## MATERIALS

**Housing material:** *High pressure die-cast aluminum*

**Finish:** *Polyester powder-coated paint in RAL 9007*

**Optic material:** *PMMA High transparent*

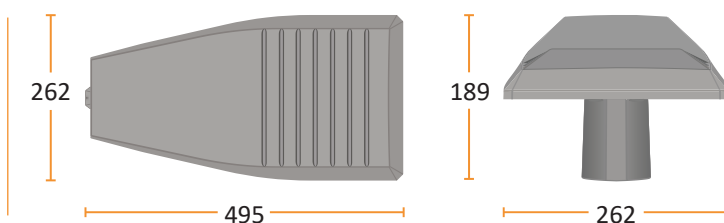
**Optical cover:** *OPTIWHITE 5 mm tempered glass*

**Cable gland:** *stainless steel with pressure equalization membrane*

**Fixation bolts:** *stainless steel grade A4*

## MEASUREMENTS:

units: mm





## POWDER COATING AND GLASS

### Property Features

*Axalta coating product formulations combine corrosion and abrasion resistance under tough operating and climate conditions.*

# Highlighting the details

## POWDER COATING AND GLASS MADE IN SLOVENIA

*Axalta is global coatings company focusing on providing innovative colour and sustainable solutions with more than 150 years of experience.*

*OPTIWHITE is a low-iron extra clear float glass with very high light transmission. It is practically colourless, and the green cast inherent to other glasses is not present. Low-iron glass is made using carefully selected raw materials with a naturally low iron content.*



*Automatic powder coating arms provide uniform 120 micron thick paint application.*



*The optical glass cover is made from OPTIWHITE glass, 5 millimeters thick with excellent light transmission.*

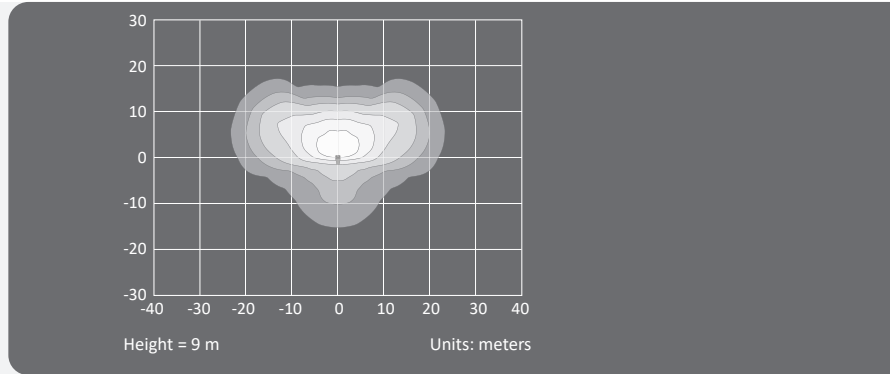
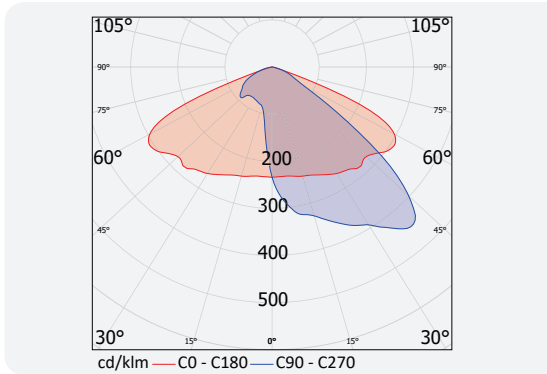


*Each glass is individually CNC drilled and the edge is ground, which increases the lamp's durability.*

# Commonly used optics with NAIT MT 36 LED

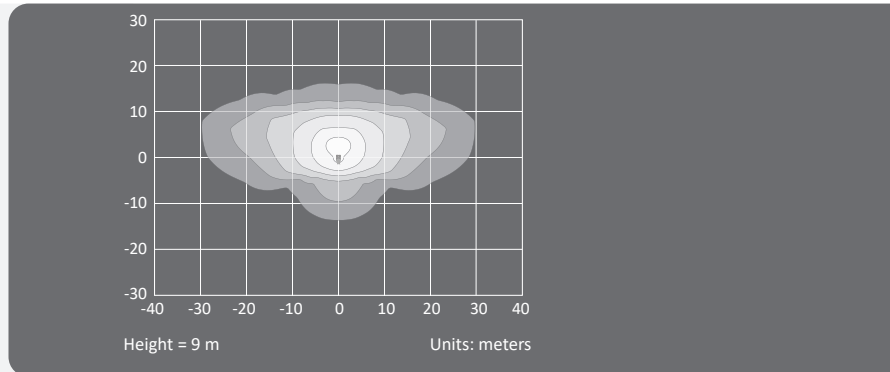
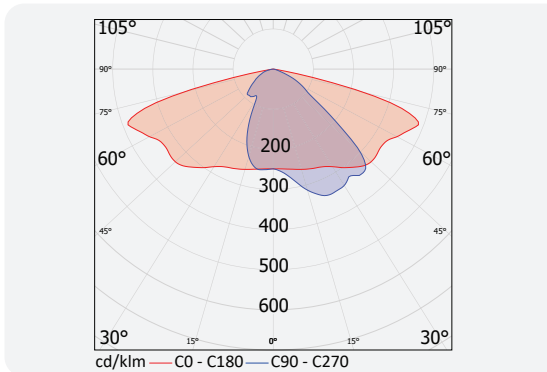
## DA optic

Beam with extremely low glare fulfilling EN13201 M-class requirements for wet road surfaces in North Europe.



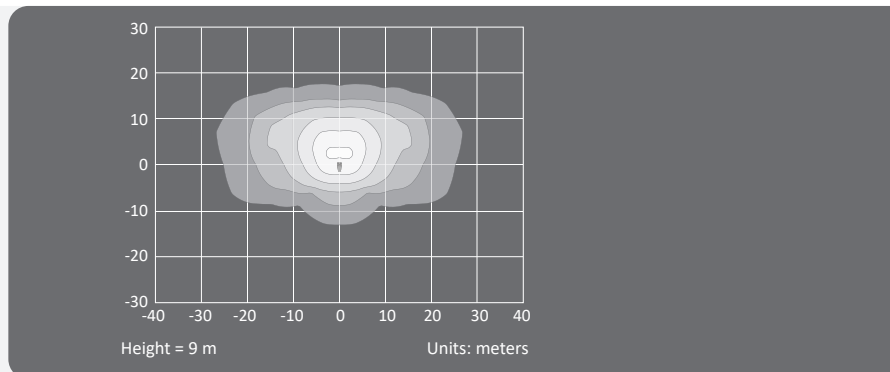
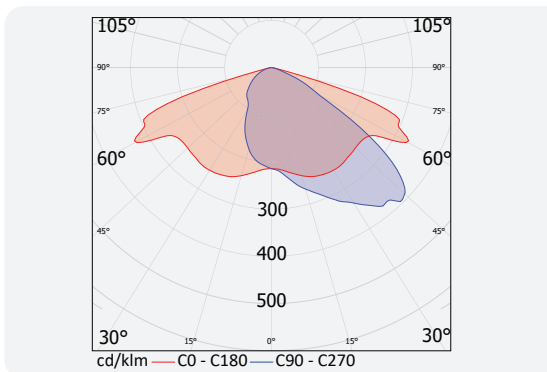
## H3 optic

Excellent longitudinal luminance uniformity for EN13201 M-class where road width is  $\geq$  the pole height. Usually to illuminate up to three lanes in front of the pole.



## H4 optic

Excellent longitudinal luminance uniformity for EN13201 M-class where road width is wider than the pole height. Usually to illuminate up to four lanes in front of the pole.



All additional optics are available on pg. 65.

# NAIT MT 36 LED Ordering codes

housing	LED	CCT/CRI	power	optic	operating mode	surge protection	wiring	RAL	el. class	controls
NAIT	MT36LEDHP	722	55 W	WD	ON/OFF	BI	QCS	9007	CL1	NC
	MT36LEDHP-HE	727	60 W	WA	ON/OFF-CLO		1 m	9007P	CL2	ZH
housing: NAIT		730	65 W	DA	Astro DIM		2 m	9007E		NE
		740	70 W	CO	Astro DIM-CLO		3 m			
		822	75 W	PC	Step DIM		4 m			
		827		ND	Step DIM-CLO		5 m-16 m			
		830		H3	DALI					
LED: MT36LEDHP-36 high power LED		840		H4	DALI-CLO					

This guideline should give you a brief overview of the configuration options of the NAIT MT 36 LED luminaire. Please contact us if you have any further questions about the configuration.

Different controls: NC-no control, ZH-ZHAGA socket, NE-NEMA socket

Electrical class: CL1 (earthed), CL2 (double insulated)

RAL options: 9007-standard colour, 9007P-additional primer + standard colour (on request). 9007E-eluxation+standard colour (on request)

Options of wiring: QCS-quick connect system, 1 m-16 m different cable length from 1 m to 16 m, scale is 1 m

Power: from 55 W to 75 W

Optics: several optics are available

Surge protection: BI-built in standards of driver

Operating mode: several operating modes are available

Sample of ordering code: NAIT-MT36LEDHP-722-55W-WD-ONOFF-BI-QCS-9007-CL1-NC



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