



*lighting your way*



# NAIT PLUS MT-80 LED

## Full performance at high power

This configuration can easily perform at its full potential, delivering more than 22.250 lumens. 80 pieces of high power LEDs and advanced optics have proven to comply with lighting demands for highways, expressways and traffic heavy conflict areas. It's aerodynamic shape and low air resistance make it a safe choice for high pole installation in strong wind zones.

High IP66 and IK09 rating makes this luminaire practically indestructible. Pairing all this along with a modular design and you get a luminaire with a very high service life.





# Illuminating the speed with NAIT plus MT-80



## PERFORMANCE DATA

**System flux:** 12226,1 lm - 22251,6 lm

**System power:** 115,9 - 168,6 W

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

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

**Classification:** IEC protection class I / II, IP66, IK10

**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:** 9,35 kg

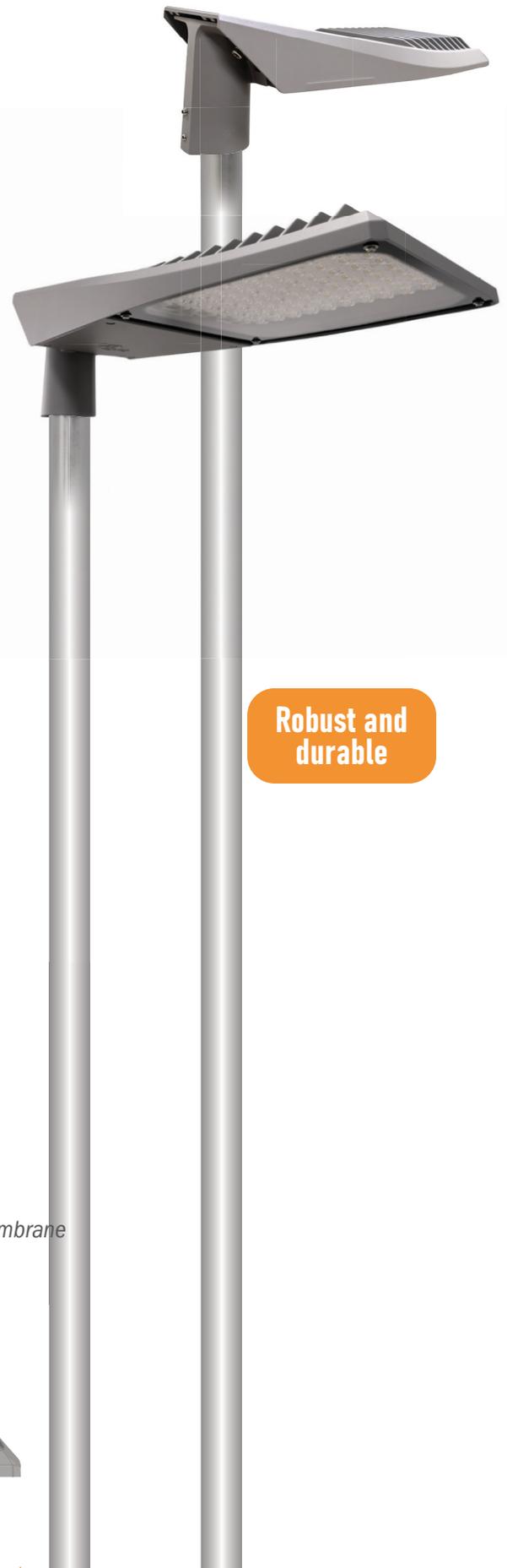
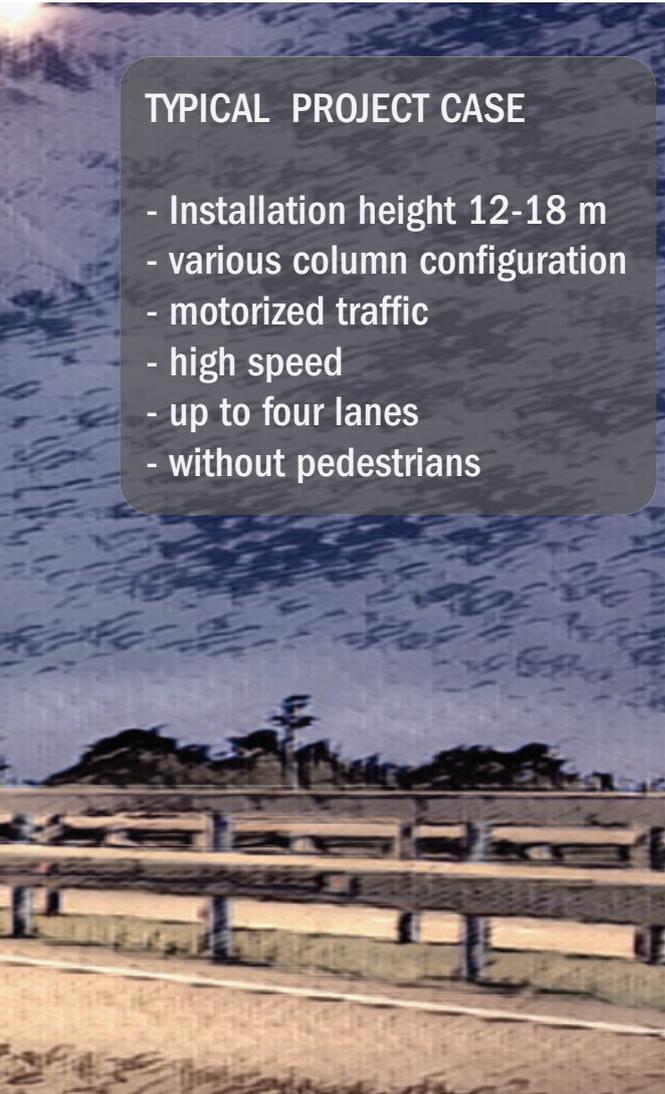
**Pre-wiring:** preinstalled with fast connector

- 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 12-18 m
- various column configuration
- motorized traffic
- high speed
- up to four lanes
- without pedestrians



Robust and durable

## MATERIALS

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

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

**Optic material:** PMMA High transparent

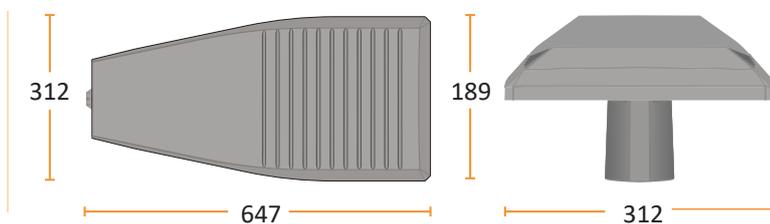
**Optical cover:** OPTIWHITE 5 mm tempered glass

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

**Fixation bolts:** stainless steel grade A4

## MEASUREMENTS:

units: mm





## OPTICS

### Property Features

*We work on street lighting and we have experience and technological know-how to achieve extraordinary results in a wide range of different road cases.*

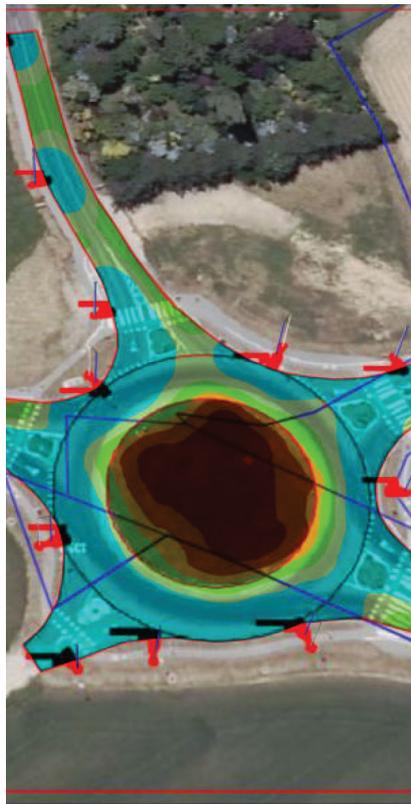
# Highlighting the details

## OPTICS FOR MOST COMMON ROADS

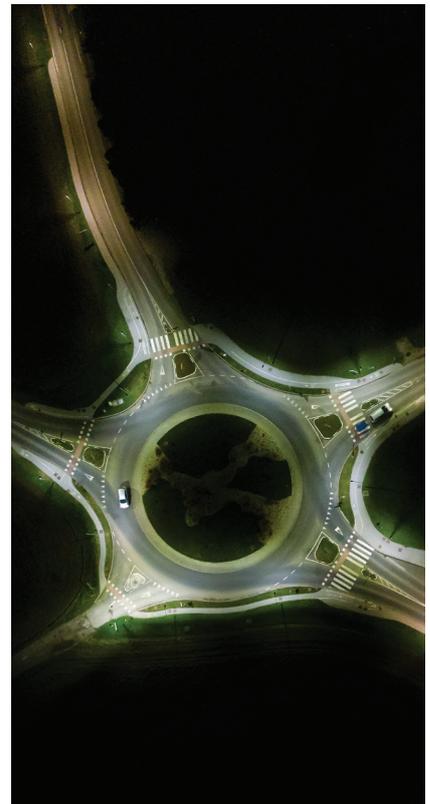
We try to illuminate every situation we are given as a challenge. Thanks to multi-optics, we achieve uniformity of lighting even in areas where only one type of optic would not be sufficient.



Multichip samples for uncommon roads, in a presentation case, for easier explanation to customers.



Case study of multichip simulation in Relux, taking existing pole locations and height for calculation

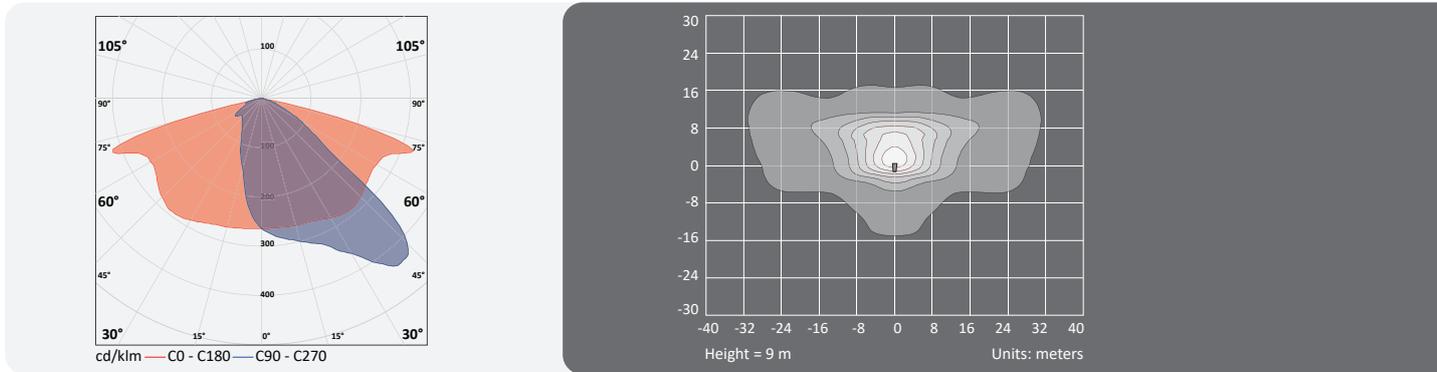


Drone night footage of case study after implementation of LED multichip optics and CCTs.

# Commonly used optics with NAIT PLUS MT 80 LED

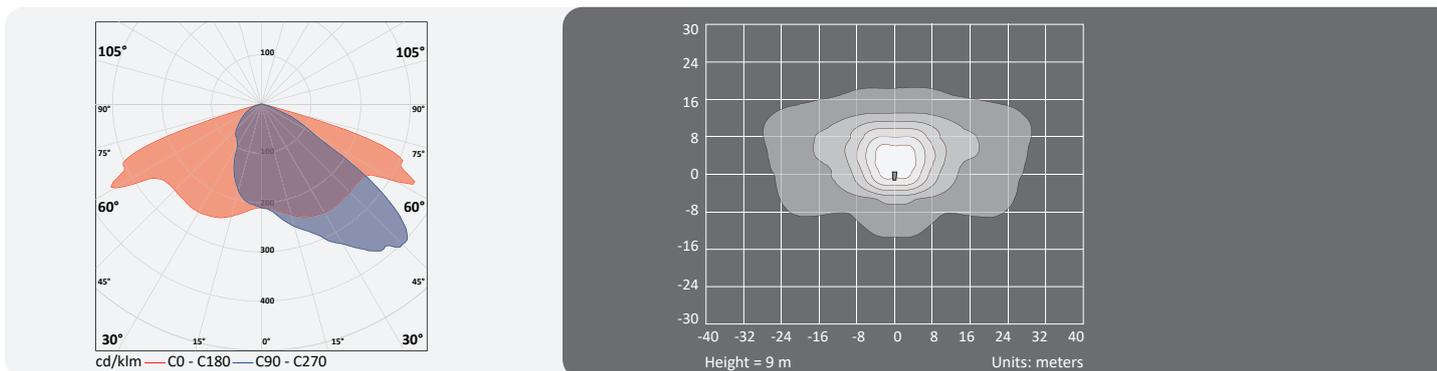
## CO optic

Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less the pole height



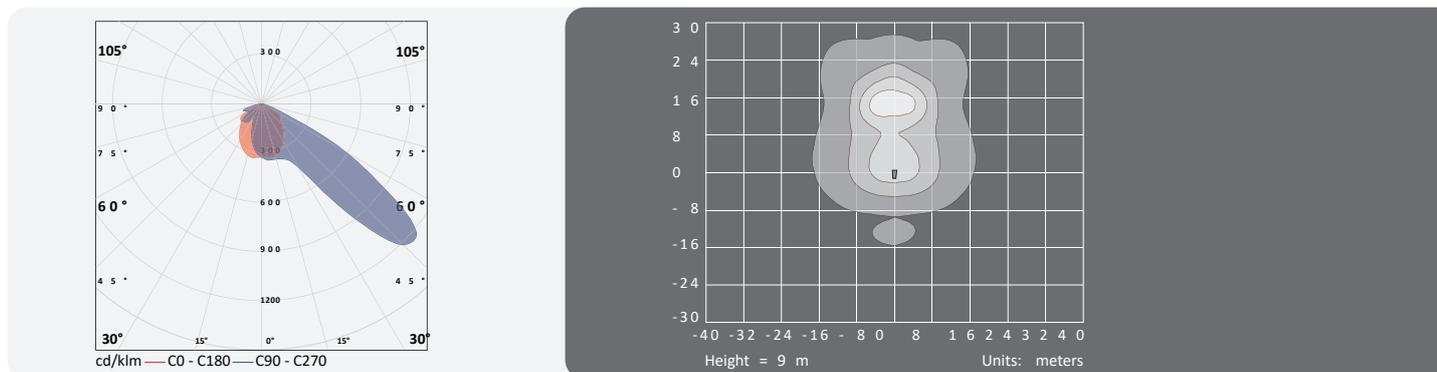
## H4 optic

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.



## FF optic

Narrow forward throw beam for area lighting. Excellent for lighting stadiums and airports from high masts.



All additional optics are available on pg. 65.

# NAIT PLUS MT 80 LED Ordering codes

housing	LED	CCT/CRI	power	optic	operating mode	surge protection	wiring	RAL	el. class	controls	
NAIT PLUS	MT80LEDHP	722	115 W	WD	ON/OFF	BI	QCS	9007	CL1	NC	
		727	120 W	WA	ON/OFF-CLO	10kV	1 m	9007P	CL2	ZH	
		730	125 W	DA	Astro DIM	15kV	2 m	9007E		NE	
		740	130 W	CO	Astro DIM-CLO	20kV	3 m				
		822	135 W	PC	Step DIM		4 m				
		827	140 W	ND	Step DIM-CLO		5 m-16				
		830	145 W	H3	DALI		m				
		840	150 W	H4	DALI-CLO						
					155 W						
					160 W						
			165 W								

This guideline should give you a brief overview of the configuration options of the NAIT PLUS MT 80 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

Surge protection: BI-built in standards of driver, 10kV-additional SP to driver, 50kV-additional SP to driver, 20kV-additional SP to driver

Operating mode: several operating modes are available

Sample of ordering code: NAIT PLUS-MT80LEDHP-722-115W-WD-ONOFF-BI-QCS-9007-CL1-NC



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