



*lighting your way*





# NAT MT-24 LED

## A perfect balance between power and comfort

This luminaire is used when more luminous flux is needed to comply with higher demands of increasing traffic. This usually starts when lighting projects involve bigger roads with higher lighting poles. Such examples are mainly conflict zones, for instance; pedestrian crossings, where adequate

vertical luminance must be provided, or roundabouts where uniform illumination is of critical importance. This luminaire can deliver almost double the luminous flux than its predecessor, while maintaining visual uniformity, with a fraction of a price difference.





# Advancing to the city with NAIT MT-24 LED



## PERFORMANCE DATA

**System flux:** 3922,8 lm - 7074,0 lm

**System power:** 30,6-52,1 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

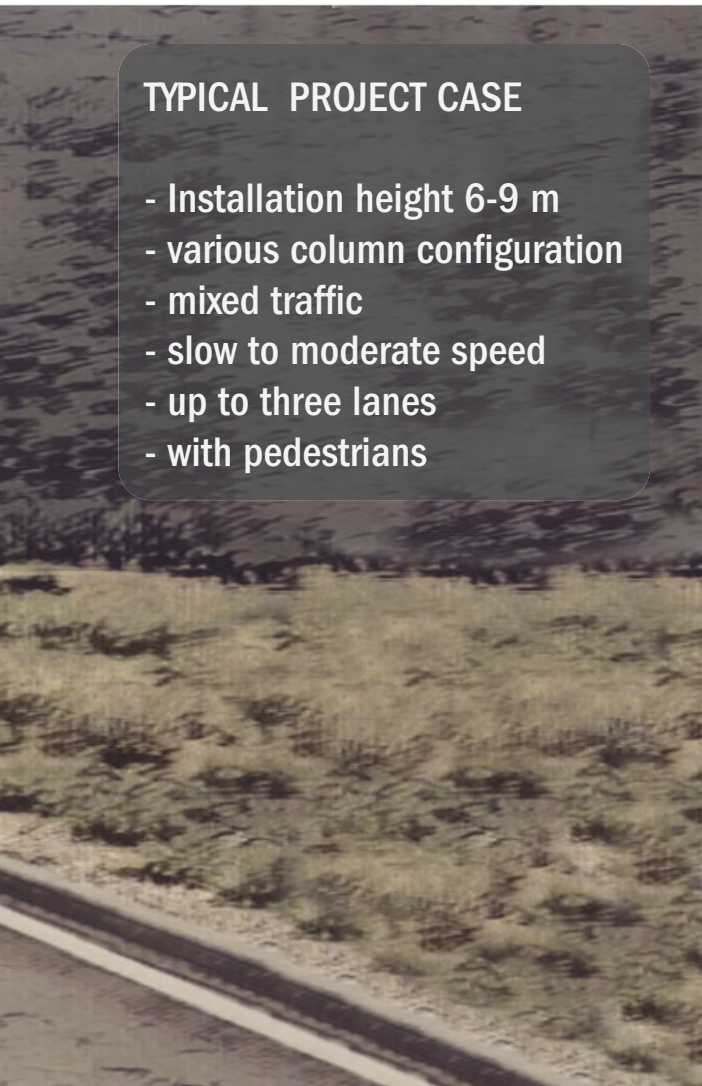
**Pre-wiring:** preinstalled with fast connector

- 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 6-9 m
- various column configuration
- mixed traffic
- slow to moderate speed
- up to three lanes
- with pedestrians



Small  
projected area

## MATERIALS

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

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

**Optic material:** PMMA High transparent

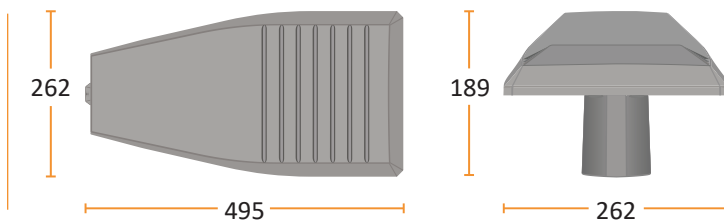
**Optical cover:** OPTWHITE 5 mm tempered glass

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

**Fixation bolts:** stainless steel grade A4

## MEASUREMENTS:

units: mm





## HIGH PRESSURE DIE CASTING

### Property Features

- Good toughness & ductility
- Good wear resistance
- Very good machinability
- Good hot hardness
- Good polishability
- High thermal conductivity
- Good micro-cleanliness
- Coatable
- Can be nitrated

# Highlighting the details

## ALU-DIE CASTING TOOL MADE IN SLOVENIJA

*Tool made from material: Böhler W300*

*Electro-slag remelted hot-work tool steel with very high toughness, good hot strength properties and good polishability.*



*Material used for die casting is EN AC 47100 (DIN 231 D) - AlSi12Cu1(Fe). Used for pressure die casting with excellent machinability and hardness.*



*Aluminum alloy is heated to more than 700 degrees Celsius and is transported with automated robotic arm.*

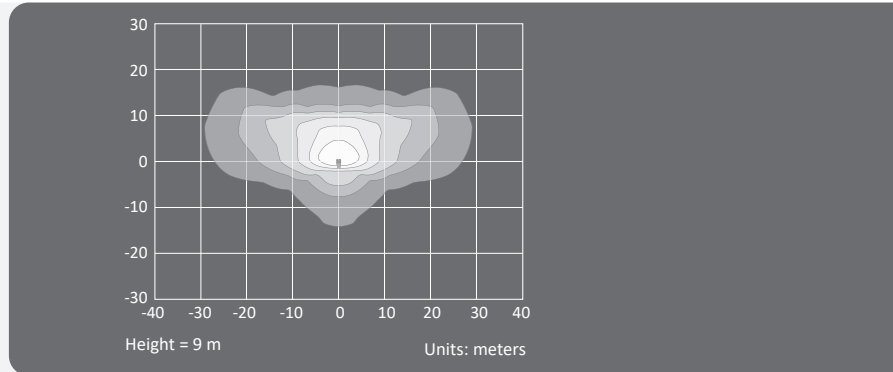
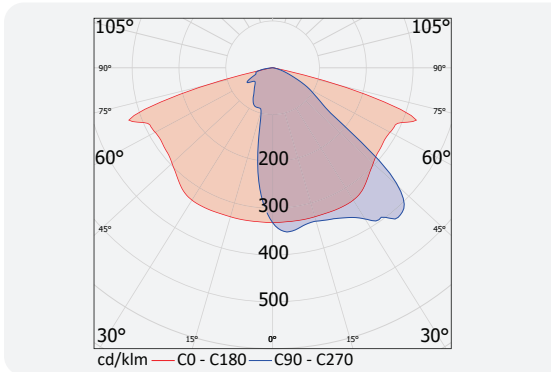


*Bühler 840 SCD die-casting machine has more than 950 tons of closing force with an automatic robotic ejector arm.*

# Commonly used optics with NAIT MT 24 LED

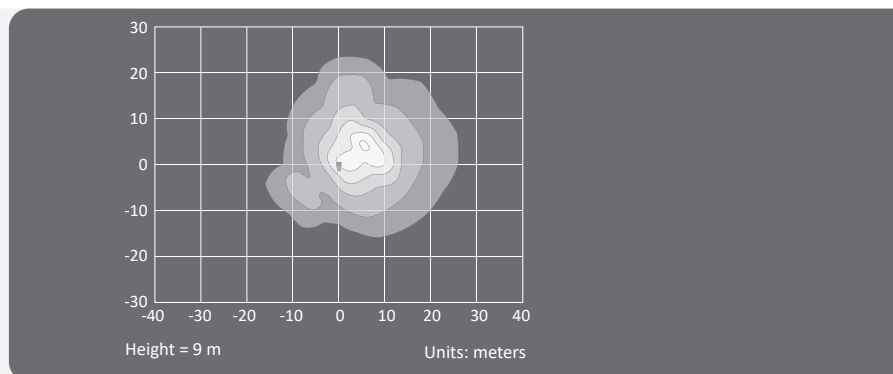
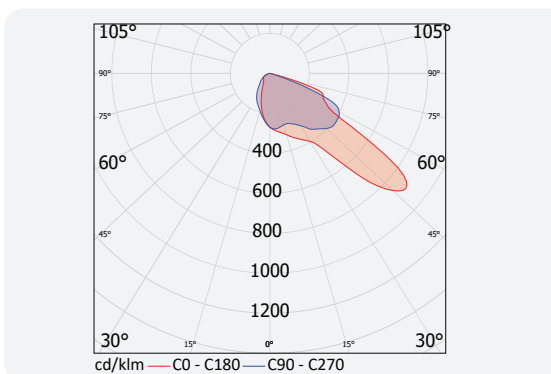
## CO optic

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



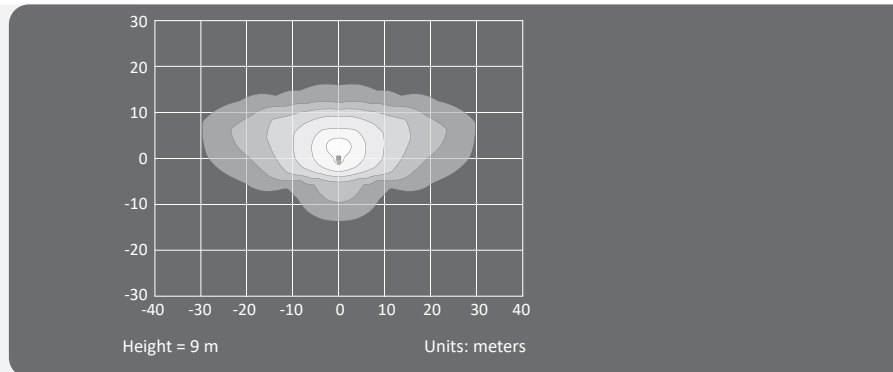
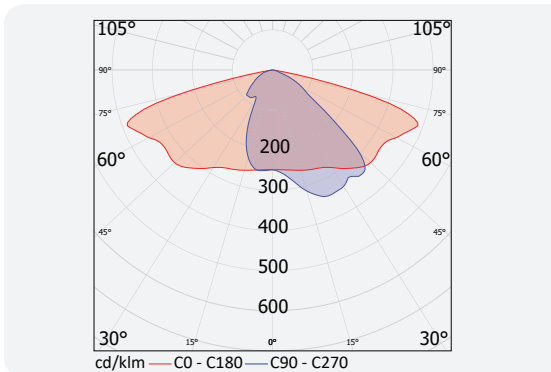
## PC optic

Fully asymmetric beam designed to highlight right side traffic pedestrian crossings.



## 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.



All additional optics are available on pg. 65.

# NAIT MT 24 LED Ordering codes

housing	LED	CCT/CRI	power	optic	operating mode	surge protection	wiring	RAL	el. class	controls
NAIT	MT24LEDHP	722	30 W	WD	ON/OFF	BI	QCS	9007	CL1	NC
	MT24LEDHP-HE	727	35 W	WA	ON/OFF-CLO		1 m	9007P	CL2	ZH
housing: NAIT		730	40 W	DA	Astro DIM		2 m	9007E		NE
		740	45 W	CO	Astro DIM-CLO		3 m			
		822	50 W	PC	Step DIM		4 m			
		827		ND	Step DIM-CLO		5 m-16 m			
		830		H3	DALI					
LED: MT24LEDHP-24 high power LED		840		H4	DALI-CLO					

This guideline should give you a brief overview of the configuration options of the NAIT MT 24 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 30 W to 50 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-MT24LEDHP-722-30W-WD-ONOFF-BI-QCS-9007-CL1-NC



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