

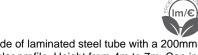
Light point **Tomsk T**

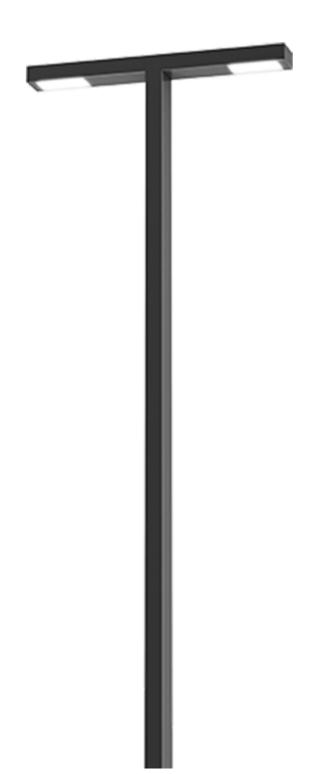
ACTMT+ALTM









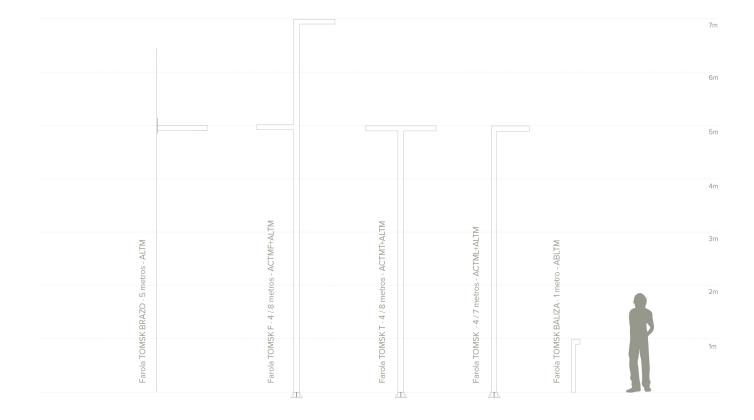


Pole made of laminated steel tube with a 200mm x 100 mm rectangular profile. Height from 4m to 7m. Can include one or two brackets (same or different height). High resistance and durability. Refined and modern style ideal for any urban environment. Includes a BENITO-NOVATILU LEDs module with ligh distributions from 20W to 120W to cover all applications.

Ref	H (Altura)	Sección	Pernos	Plantilla
ACTMT4	4m	200x100mm	M22x700	300x300mm
ACTMT6	6m	200x100mm	M22x700	300x300mm
ACTMT8	8m	200x100mm	M22x700	300x300mm

Project sheet | CAD | Mounting instructions | HD image







ALTM

luminaire

TOMSK















Minimalist design luminaire in extruded aluminium with a rectangular profile of 200mm x 100mm. It offers great robustness and durability, its sober and modern design adapts to any type of urban environment. It incorporates at its end one or two BENITO LED modules for easy maintenance with a power range from 20W to 150W, which allows it to adapt to any lighting requirement.

MAIN FEATURES:

High efficiency. Up to 145 lm/W net 2 different sizes. From 20W to 150W 18 light distribution curves Zhaga Standard (Book 15) Tempered 4mm glass with sealing joint to obtain an IP66 rating Double Cavity, Driver and Optical Group Ready4IOT. Ready for connectivity

APPLICATIONS:

Historical Centres Residential Streets (Zones 30) Pedestrian Zones Commercial and Tourist Streets Squares Green Areas; Parks and Gardens

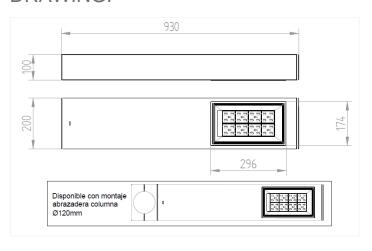
Project sheet | CAD | Catalogue | Mounting instructions | HD image



SPECIFICATIONS:

Housing material:	Aluminum extrusion with a 200mm x 100mm rectangular profile
Diffuser (optic system enclosure):	4mm tempered safety glass. UV filter
Fixing elements:	Stainless steel 18/8 - AISI 304
Housing:	One-piece construction with register for Benito LED module in die-cast aluminium.
Sealing gaskets:	Silicone
IP rating (luminaire):	IP66
IP rating (optic system):	IP66
IK rating (impact resistance):	IK09
LEDs thermal dissipation:	Highly efficient heatsink with large dissipation surface, thanks to the LED module made of diecast aluminium. Passive dissipation by convection and ensuring thermal contact of the LED modules through highly conductive heat transfer material.
Anti-condensation valve:	Pressure-balancing valve ensures the evacuation of humidity, preventing condensation and maintaining the IP tightness rating of the LED module.
Paint and finishes:	Extruded aluminium and with a polyester powder paint coating, electrostatically sprayed and sublimated in the oven. Resistant to corrosion
Colour:	Microtextured black (Optional: other colours on request)
Mounting:	Rectangular Column 100x200 / Cylindrical 120mm / Wall fixing
Tilt range:	No tilt.
Maintenance:	Modular concept for easy component replacement: LEDs, drivers, SPD
Recommended mounting height:	4 - 10 m
Driver:	Constant current adjustable and programmable driver on different levels (0-10V, 1-10V, DALI2, NFC). Embedded in the luminaire, pre-wired on a galvanised steel plate.
Flow Reduction:	Double level with control line, autonomous multi-level dimming or virtual midnight, flow reduction at the head-end.
Ready4IOT - Connectivity:	Zhaga Base (Book 18) - D4i. (Optional). NEMA 5,7 Pins Base (Optional). Bottom side Presence Sensor on Zhaga Base (Book 18) - D4i. (Optional).
Surge protection device (SPD):	Type T2+T3, 10kV and 20kA transient surge protector. Series connection with thermofuse, disconnection for a more effective protection at the end of the SPD service life. (Optional SPD Full Permanent Surge Protector >264Vac to <170VAc).

DRAWING:



INSTALLATION:













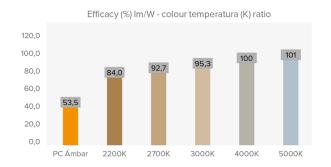




TECHNICAL DATA:

					Real luminous flux (T) =85°C)		Initial luminous flux (T) =25°C)	
	REF.	Nº LEDs	Power W	I Driver mA	Flux Im	Efficacy Im/W	Flux Im	Efficacy Im/W
Tomsk Luminaire		16	20	375	2842	142	3240	162
		16	30	563	4260	142	4856	162
		16	40	750	5642	141	6432	161
	ALTM	32	60	563	8460	141	9644	161
		32	80	750	11360	142	12950	162
		64	100	470	14100	141	22701	161
		64	150	700	21000	140	24000	160

Luminous flux and efficiency at 4000°K and CRI>70. Luminous flux tolerance < +/-3%. Values may be subject to changes due to LED binning.



PHOTOMETRY:

Symmetric Extensive Rectangular Asymmetric Extensive (AE) Asymmetric Super Extensive (A3) Asymmetric Extensive Front (A1)



Symmetric (SE)

^{*}Show 4 recommended lighting distributions. Refer to the 18 typologies.



LEDS MODULE:	
LEDs module:	Benito Zhaga format 16 LED. Check other color temperatures, CRI and light distributions. (Optional NTC temperature sensor).
Replaceable module:	Yes
LED:	5050
Number of LEDs:	16 - 32 - 64
PCBs format:	1, 2 or 4 Zhaga (Book 15) 2x8
LED nominal efficacy:	172
Colour temperature:	PC Amber - 1K8, 2K2, 2K7, 3K, 4K, TW - Tunable White
Colour rendering index CRI:	>70 (optional >80)

L90B10 >100,000 hours

OPTIC SPECIFICATIONS: Optic system: PMMA lenses 2x2 Light distributions: 18 light distribution curves Upward light output ratio ULOR: Downward light output ratio DLOR: 100% Between D5 and D6 (depending on the light distribution) Glare index: Luminous intensity category: Between G*4 and G*6 (depending on the light distribution) Luminous flux CIE nº3: >95% (See 18 Light Distributions). Photobiological safety: RG0 (exempt of risk) Initial luminous flux Tj=25°C (up to): lm 24000 Initial luminaire efficacy Tj=25°C (up to): Im/W 162 Real luminous flux Tj=85°C (UNE EN 13032-4) 21000 lm Real luminaire efficacy Tj=85°C (UNE EN 13032-4) (up to): Im/W 142

ELECTRIC SPECIFICATIONS:		
Nominal maximum power (LEDs):		135
Maximum power consumed (luminaire):	W	150
Power range:	W	20 - 150
Maximum current of LED:	mA	<470 (LED Current = 50% Driver Current)
Power supply protection classes IEC:		Class I and II
Surge protection device (SPD):		Type 2 and Type 3, 10kV and 20kA transient surge protector. Series connection with thermal fuse disconnector for a more effective protection at the end of its service life.
Common and differential mode protection (SPD) Udc:	kV	10
Max current (8/20) (SPD):	kA	20
Thermal phase disconnection (SPD):		Yes
Input voltage:	Vac	220-240
Input voltage (max rate):	Vac	198-264
Input frecquency:	Hz	47-63
Starting current:	Α	<65
Duration of the starting voltage peak:	ms	<0.3
Driver efficacy:		>90%
Power factor 100% consumption:		>0.98
Power factor 50% consumption:		>0.95
Total harmonic distortion (THD):		<10
Power consumption on standby mode:	W	<0.4
Energy class:		C (According to EU Regulation 2019/2015 EPREL) - A++ IPEA>1,15

OPERATING CONDITIONS:		
Average LED useful time L90B10:		>100,000
Average driver useful life to Tp <70°C:		100,000
Average luminaire useful life L90B10 (TM-21):		
Ambient temperature (Ta):	°C	From -35°C to +50°C
Aerodynamic resistance (CxS):	m2	0,178
Vibration test (15Hz 3 axis):		
Guarantee:	years	5 (extensible up to 10 years)

PACKAGING DIMENSIONS:		
Net weight	kg	7,5 - 12,5
Gross weight	kg 8	8,5 - 14
Luminaire dimensions (LxWxH)	mm s	900-1250x200x100
Packaging dimensions (LxWxH)	mm s	940-1290x240x140
Pieces per box		
Quantity per container 20ft	-	764 - 640
Quantity per container 40ft		1792 -1360

CERTIF	ICATEC.
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Average LED useful time L90B10:

Security certificates: EN 40 / EN 62031 / EN 62493 / EN 62471 / IEC 62778 /EN 61247-2-13

EMC certificates: EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 61347-2-13 / EN 61347-1 / EN 62384

Other certifications: IEC 62262 / EN 13032-4 / EN 62717 / EN 6272-1 / EN 6272-2-1 / EN 61643-11

Company Certifications



