

**EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)**

We (Mi):

	<b>Tungsrám Operations Kft.</b>
Registered office (bejegyzett székhely):	<b>1044 Budapest, Váci út 77. Hungary</b>
Contact address (kapcsolattartó cím):	<b>1044 Budapest, Váci út 77. Hungary (1044 Budapest, Váci út 77. Magyarország)</b>

as manufacturer, declare under our sole responsibility that the product (mint gyártó teljes felelősségünk tudatában kijelentjük, hogy a):

Product family (Termékcsalád): **THBt LED Tunnel Luminaire**

Product identification (Termék azonosítók): Listed in Appendix (Mellékletben felsorolva)

Manufactured in (Gyártóhely): **Hungary (Magyarország)**

to which this declaration relates is in conformity with the following harmonized standard(s), the reference to which have been published in the Official Journal of the European Union and/or other relevant technical specifications (amelyre ez a nyilatkozat vonatkozik, megfelel a következő harmonizált szabványoknak, amelyek hivatkozásait közzétették az Európai Unió Hivatalos Lapjában és/vagy egyéb vonatkozó műszaki előírásoknak):

**EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)**
**ELECTRICAL AND PHOTOBIOLOGICAL SAFETY (ELEKTROMOS BIZTONSÁG ÉS EGÉSZSÉG)**

Number, version, year of issue	Title
EN 60598-1:2015, EN 60598-1:2015/AC:2015, EN 60598-1:2015/AC:2016, EN 60598-1:2015/AC:2017-05, EN 60598-1:2015/A1:2018	Luminaires - Part 1: General requirements and tests
EN 60598-2-3:2003, EN 60598-2-3:2003/A1:2011, EN 60598-2-3:2003/AC:2005	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting
EN 62493:2015, IEC 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic fields

therefore it complies with the provisions of the following EU Directive (ezáltal biztosítva a következő EU irányelvnek való megfelelést)

**Directive 2014/35/EU (2014/35/EU irányelv).**

**ELECTROMAGNETIC COMPATIBILITY (ELEKTROMÁGNESES KOMPATIBILITÁS)**

Number, version, year of issue	Title
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase)
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq$ 16 A per phase and not subject to conditional connection
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements

therefore it complies with the provisions of the following EU Directive (ezáltal biztosítva a következő EU irányelvnek való megfelelést)

**Directive 2014/30/EU (2014/30/EU irányelv).**

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**ROHS**

Number, version, year of issue	Title
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

therefore it complies with the provisions of the following EU Directive (ezáltal biztosítva a következő EU irányelvnek való megfelelést):

**Directive 2011/65/EU (2011/65/EU irányelv).**

**ECODESIGN**

It complies with the provisions of the following EU Directives (Megfelel a következő EU irányelveknek):

**Directive 2009/125/EC (2009/125/EC irányelv) and (és) its implementing Regulation (EU) 2019/2020 and their amendments (annak végrehajtási rendelete (EU) 2019/2020 és módosításai).**

This declaration is valid from (A deklaráció érvényes): 2021-09-01

 (signature)

**HEAD OF PRODUCT MANAGEMENT**  
HUJBER KATALIN (name)

(Title)

2021-08-19 (date) (YYYY-MM-DD)

Hungary (Country)

 (signature)

**Lantos Ferenc**  
Head of PM & Director of Technology (name)

(Title)

2021-08-19 (date) (YYYY-MM-DD)

Hungary (Country)

## EU DECLARATION OF CONFORMITY (EU MEGFELELŐSÉGI NYILATKOZAT)

## Appendix (Melléklet)

 Brand / Márkanév: *Tungsr*am (TU)

THBt	Generation	Front Glass	Optics	Nominal Power (W)*****	CCT (K)
THBt	1	F - Flat Glass	AA - (Asym)	200	3 - 3000K
			AB - (Asym)	240	4 - 4000K
			AC - (Asym)	280	5 - 5000K
			AE - (Asym)	320	
			SB - (Sym)	360	
			SC - (Sym)		
			SE - (Sym)		

Control	Accessories	IEC Protection
N - No control	ST - Driver box mounted on luminaire**	1 - Class I
D - DALI	RST - Remote driver box with 2 m connection cable**	2 - Class II
Yxx - Dynadim*		
NLxx - No control + CLO*		
DLxx - DALI + CLO*		
YLxx - Dynadim + CLO*		

Precabing	Mounting*****	Customer*****
PX - Precabing with X meters***	B1 - Ceiling mount	XXX
PCX - Precabing with X meters and quick connector****	B2 - Wall mount	
MCX - Mounted Connector*****	B3 - Remote driver	

\* x is integer

\*\* 10 kV extra surge protection included

\*\*\* Maximum precabing length supplied with the product is 5 meters. Longer cabling is sold separately.

\*\*\*\* Maximum precabing length supplied with the product is 5 meters. Longer cabling is sold separately. This option is not available with C2 protection class.

\*\*\*\*\* X="2": two extra connectors for DALI loop-in loop-out. X="0": no DALI loop. This option is not available with C2 protection class.

\*\*\*\*\* B1 bracket limits rotation within +/- 20 degrees. B2 bracket allows any luminaire orientation, B3 is for remote driver option only.

\*\*\*\*\* Power consumption of luminaire can be programmed by the manufacturer in 1W steps within the range (200-360). Ta values depends on performance 200-280W Ta=50°C, 281-360W Ta=60°C.

\*\*\*\*\* Optional customer/project specific product identifier. It has no impact on technical features. Leave it blank if it is standard.

Example: THBt/1/F/AC/360/4/D/ST/1/MC2/B2