

# Tino Ramp

LED

Energy-efficient, low maintenance, industrial IP44 LED allround luminaire with self-supporting body. Wide selection of optics and power options enables use of Tino in various applications from super markets to logistic centers.



## Helvar ActiveAhead

ActiveAhead is a self-learning, wirelessly networked and future proof control system. ActiveAhead luminaires listen and learn by themselves and from each other to make sure that there is always light on your way. Plug'n play, no programming or commissioning needed.

## Optics

Ensto luminaires include variable possibilities for optical solutions to choose from. Symmetric, wide and many others, our product families have several options for light distribution and -output to fit your project and demand.

## Tunable White

Ensto luminaires with Tunable White -solution are a base for Human Centric lighting. You can integrate Ensto TW -luminaires into numerous control systems which operate steplessly between 2700 K and 6500 K. Tunable White -solution is perfect for modern office use.

## DALI

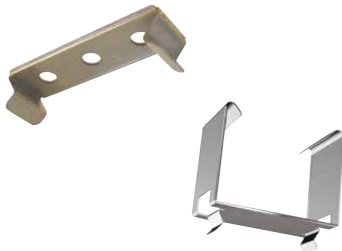
DALI drivers enable luminaires to be connected to DALI based control systems and Smart Buildings. Compared to a fixed output installation, the dimming and individual control capability provided by DALI enables considerable energy savings and control, depending on luminaire specifications.



"The real package for lighting with multiple optics."



Tino with frosted acrylic diffuser



Spring brackets AMJK1 and AMJK2

### Structure

- › Body aluminium profile, end caps aluminium, colour white
- › Diffuser clear (C) or frosted (F) acrylic
- › Optics:
  - Wide beam (WB)
  - Medium beam (MB)
- › DALI- and basic models
- › TN2xxx models:
  - Connected load 107W, length 2300 mm, see the luminaire luminous flux from the table
  - Connected load 132W, length 2870 mm, see the luminaire luminous flux from the table
- › TN3xxx models:
  - 1-row model
  - Frosted (F) acrylic models
  - Connected load 106W, length 2300 mm, see the luminaire luminous flux from the table
  - Connected load 130W, length 2870 mm, see the luminaire luminous flux from the table
  - 4000 K, power factor 0,98, Ra> 80
  - Ambient temperature - 20 °C - + 30 °C
  - LED-luminaire lifespan 100 000h  $L_{70}B_{50}F_{10}$
  - $T_a=25\text{ °C}$

### Mounting

- › Directly to the ceiling with AMJK1 spring brackets
- › To the lighting suspension rail (MEK) with AMJK2 spring brackets between the lighting suspension rails with steplessly adjustable end supports (AMRPK, AMRPK500 or AMRPK330).
- › In case of installation between the suspension rails the bending of the luminaire is ca. 5 mm in the center of the luminaire. The bending can be avoided by installing an extra suspension support (AMJK1 + suspension wire or threaded rod). See end support options at Monix Ramp product card at WEB-site [www.ensto.com](http://www.ensto.com) - Monix Ramp
- › Trough-wired -o-o- 5x2,5 mm<sup>2</sup>, controlled models 1-phase for through-wiring
- › DALI-luminaires with one DALI-address

### Made to order

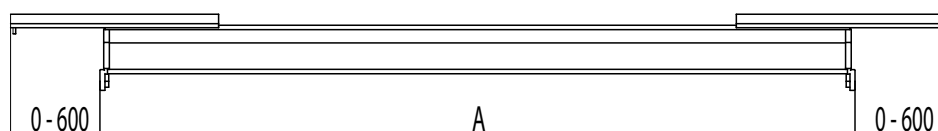
- › Switch-Control
- › With connection lead
- › With asymmetrical light distribution, light distribution curves when requested (excl. TN3-models)
- › RA > 90-models made to order, luminous flux is ca. 15% lower than in Ra >80-models
- › 3000 K -models
- › With spring brackets for XYRV, OBO and Elwia MP lighting suspension rails

E number	Type	Product name	Output	Kg	Length	Light distribution	Control	Luminous flux
With wide beam optics, clear diffuser								
43 604 43	TN2284WBC	TN2284WBC IP44 107W/840 AC C	107W	4,8	2300	WBC		15872 lm
43 604 45	TN2284WBCED	TN2284WBCED 107W/840 AC C DALI	107W	4,8	2300	WBC	DALI	15872 lm
43 603 80	TN22104WBC	TN22104WBC IP44 132W/840 AC C	132W	6,0	2870	WBC		20114 lm
43 603 82	TN22104WBCED	TN22104WBCED 132W/840 AC C DAL	132W	6,0	2870	WBC	DALI	20114 lm



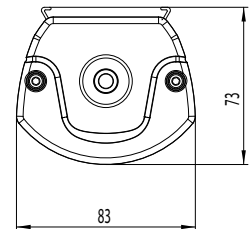
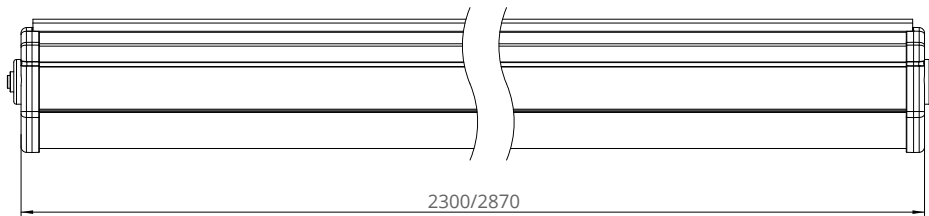
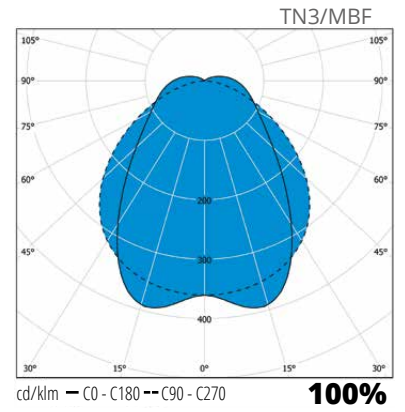
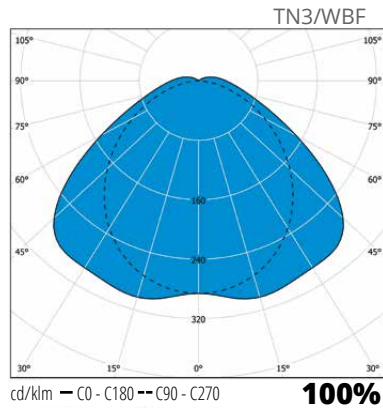
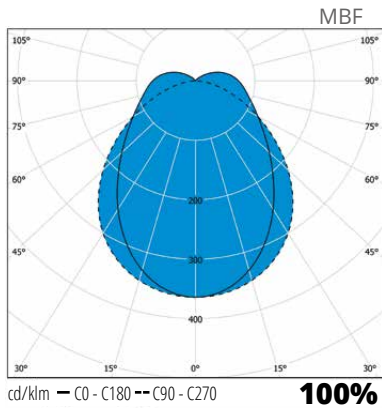
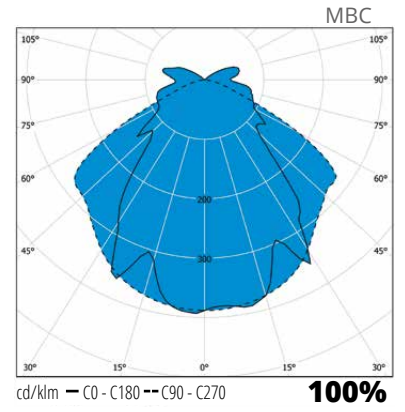
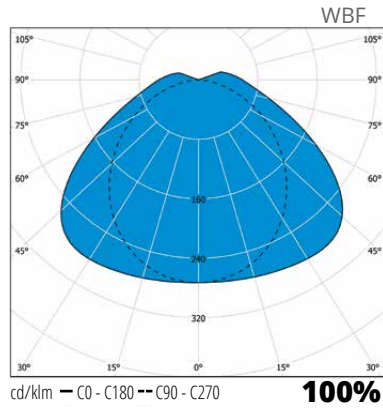
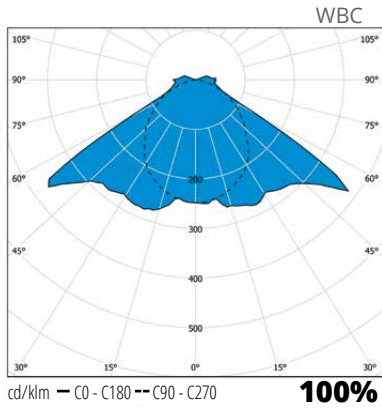
E number	Type	Product name	Output	Kg	Length	Light distribution	Control	Luminous flux
<b>With wide beam optics, frosted diffuser</b>								
43 606 14	TN3184WBF	TN3184WBF LED IP44 106W/840 ACF	106W	4,8	2300	WBF		15010 lm
43 606 16	TN3184WBFED	TN3184WBFED LED IP44 106W/840 ACF DALI	106W	4,8	2300	WBF	DALI	15010 lm
43 604 46	TN2284WBF	TN2284WBF IP44 107W/840 AC F	107W	4,8	2300	WBF		15760 lm
43 604 48	TN2284WBFED	TN2284WBFED 107W/840 AC F DALI	107W	4,8	2300	WBF	DALI	15760 lm
43 605 90	TN31104WBF	TN31104WBF LED IP44 130W/840 ACF	130W	6,0	2870	WBF		18520 lm
43 605 92	TN31104WBFED	TN31104WBFED LED IP44 130W/840 ACF DALI	130W	6,0	2870	WBF	DALI	18520 lm
43 603 83	TN22104WBF	TN22104WBF IP44 132W/840 AC F	132W	6,0	2870	WBF		19770 lm
43 603 85	TN22104WBFED	TN22104WBFED 132W/840 AC F DALI	132W	6,0	2870	WBF	DALI	19770 lm
<b>With medium beam optics, clear diffuser</b>								
43 604 37	TN2284MBC	TN2284MBC IP44 107W/840 AC C	107W	4,8	2300	MBC		15624 lm
43 604 39	TN2284MBCED	TN2284MBCED 107W/840 AC C DALI	107W	4,8	2300	MBC	DALI	15624 lm
43 603 56	TN22104MBC	TN22104MBC IP44 132W/840 AC C	132W	6,0	2870	MBC		19652 lm
43 603 76	TN22104MBCED	TN22104MBCED 132W/840 AC C DALI	132W	6,0	2870	MBC	DALI	19652 lm
<b>With medium beam optics, frosted diffuser</b>								
43 606 11	TN3184MBF	TN3184MBF LED IP44 106W/840 ACF	106W	4,8	2300	MBF		14970 lm
43 606 13	TN3184MBFED	TN3184MBFED LED IP44 106W/840 ACF DALI	106W	4,8	2300	MBF	DALI	14970 lm
43 604 40	TN2284MBF	TN2284MBF IP44 107W/840 AC F	107W	4,8	2300	MBF		15554 lm
43 604 42	TN2284MBFED	TN2284MBFED 107W/840 AC F DALI	107W	4,8	2300	MBF	DALI	15554 lm
43 605 87	TN31104MBF	TN31104MBF LED IP44 130W/840 ACF	130W	6,0	2870	MBF		18420 lm
43 605 89	TN31104MBFED	TN31104MBFED LED IP44 130W/840 ACF DALI	130W	6,0	2870	MBF	DALI	18420 lm
43 603 77	TN22104MBF	TN22104MBF IP44 132W/840 AC F	132W	6,0	2870	MBF		19550 lm
43 603 79	TN22104MBFED	TN22104MBFED 132W/840 AC F DALI	132W	6,0	2870	MBF	DALI	19550 lm
<b>Mounting accessories</b>								
43 641 70	AMJK1	AMJK1 SPRING BRACKET PAIR						Spring bracket pair
43 641 72	AMJK2	AMJK2 SPRING BRACKET PAIR						Spring bracket pair for suspension rail mounting, rail width 70 mm
42 653 82	AMJK2V	AMJK2V SPRING BRACKET PAIR, WHITE						Spring bracket pair for suspension rail mounting, rail width 70 mm
42 653 05	AMJK3	AMJK3 SPRING BRACKET PAIR						Spring bracket pair for suspension rail mounting, rail width 110 mm
43 600 83	AMJK3V	AMJK3V SPRING BRACKET PAIR, WHITE						Spring bracket pair for suspension rail mounting, rail width 110 mm
43 614 41	AMJKSH	AMJK SUSPENSION HOOK KIT						Suspension hook kit
43 641 76	AMRPK	AMRPK RAMP MOUNT.PAIR 1M		1,2				Steplessly adjustable - max 1200mm* white
42 653 80	AMRPK500	AMRPK500 RAMP MOUNT.PAIR 0,5M		0,5				Steplessly adjustable - max 630 mm* white
42 653 79	AMRPK330	AMRPK330 RAMP MOUNT.PAIR 0,3M		0,3				Steplessly adjustable - max 410 mm* white

\* Max. end support suspension length = the length of the luminaire + max. adjustment F.ex TN2104WBG+AMRPK (pair); 2870 mm + 1200mm = 4070 mm



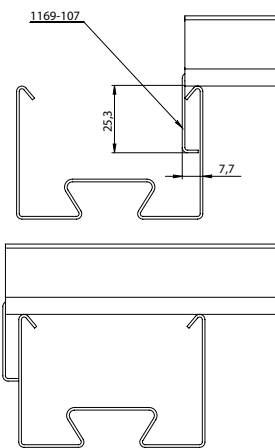
A = The length of the luminaire

- AMRPK end support adjustment / one end
- AMRPK 0-600 mm
- AMRPK500 0-315 mm
- AMRPK330 0-205 mm



TINO RAMP END SUPPORTS

End support with standard bracket

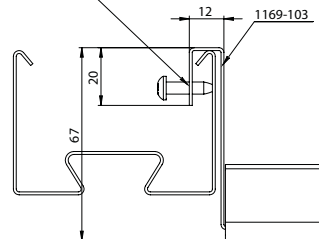


AMRPK end support with standard bracket

End support + bracket 2



Can be fastened by screw  
(Do not include to the delivery)

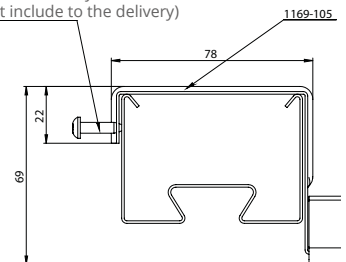


AMRPK end support with lower bracket.  
Can be fastened with screw or by pressing together (to be ordered separately).

End support + bracket 4

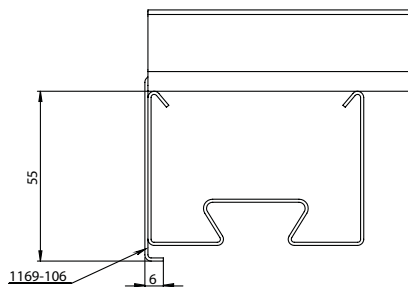


Can be fastened by screw  
(Do not include to the delivery)

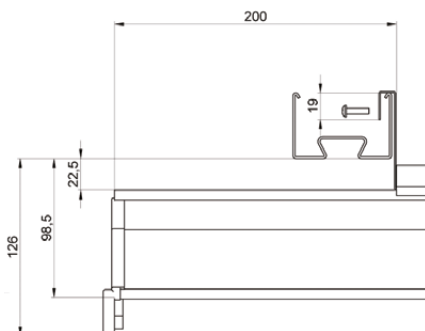


AMRPK end support with high bracket  
(to be ordered separately)

End support + bracket 5



AMRPK end support and lower bracket which can be fastened by screw or by pressing together must be ordered separately. With the lower bracket the ramp luminaires installed between the lighting suspension rails can be positioned on the same level as luminaires installed to the lighting suspension rail with AMJK2 spring brackets.



When the distance between the lighting suspension rails is shorter than the length of the luminaire (e.g. renovation project), the mounting of ramp can be done with lower bracket.



