TEKK

Developed in conjunction with

RAGNI

Ark Lighting Ltd, McGann House, Chesham, Barnsley, South Yorkshire, S70 2NT. Tel 01226 320737

TEKK

Functional lighting range - street lighting

Technical characteristics

Technical characteristics

- Adjustable sleeve for side or top mounted fastening.
- Luminaire totally IP 66.
- Incorporated driver.
- Thermal regulation of the LED module by contact with the upper partition.
- IP 68 vent.
- Surge protector and over/under voltage protection (optional).
- Available in 2 sizes.
- NEMA socket.

Lighting performance

- Designed for high-performance road asymmetrical lighting.
- Various possible photometric distributions according to the lenses adopted for the LED module.
- ULOR 0% *(ULOR: Upward Light Output Ratio)*
- Possibility of lighting management (control, automatic lowering of intensity etc.).

Installation & maintenance

- Easy installation and maintenance.
- The power is automatically switched off when the luminaire is opened.
- Tool-free opening hook.

Appearance

- Minimalist design.
- Clean effective design.
- Its design express its technical sophistication.
- Fins hider on request (TEKK S)

Environmental and social responsibility

- The Tekk has been designed to be assembled without glue for easier recycling.
- The optical system's high level of performance allows to limit electricity consumption and CO2 emissions.
- Whatever the adopted distribution, the asymmetrical lighting renders a precise luminous flow and enables to avoid totally lighting nuisances.
- Luminaire eligible for the energy savings certificate.

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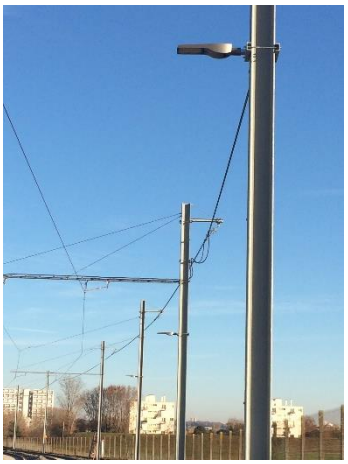
Functional lighting range - street lighting

Technical characteristics

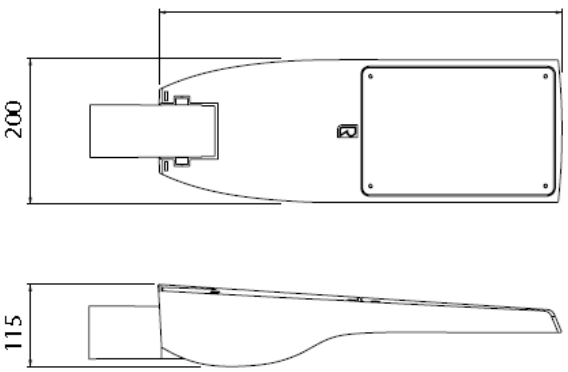


This luminaire entirely made of injected cast aluminium offers good wind resistance and is also airtight, thanks to its airtight joints located at the door and at the glass (extruded silicone).

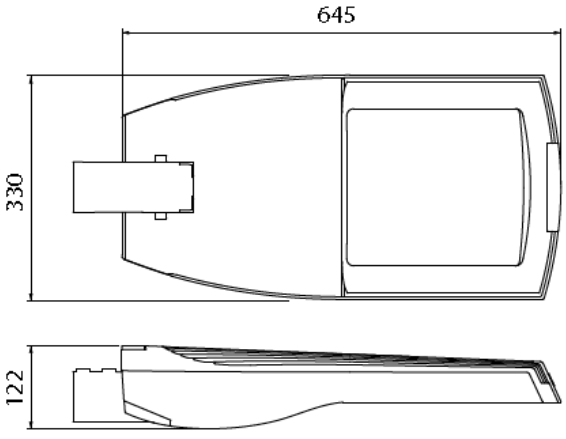
	TEKK S	TEKK M
Poids* (kg) / Weight* (kg) **sans appareillage / without control gear*	6	9.5
Coefficient aérodynamique SC_X (m^2) **Aerodynamic coefficient C_XS (m^2)**	0.04	0.06
Indice de protection / Protection index	IP 66	IP 66
Énergie de choc / Shock resistance	IK 08 (IK10 sur demande / on request)	IK 08 (IK10 sur demande / on request)
Matériaux / Materials		
Luminaire / Luminaire	Fonderie d'aluminium injecté / Injected cast aluminium	
Protection / Protection	Verre trempé / Tempered glass	
Température de fonctionnement : -25°C à +35°C (jusqu'à +50° sous condition) / Operating température: -25°C to +35°C (up to +50° subject to condition)		

Dimensions (mm) / Dimensions (mm)

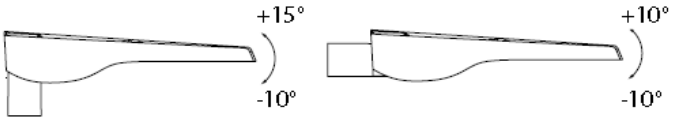
TEKK S



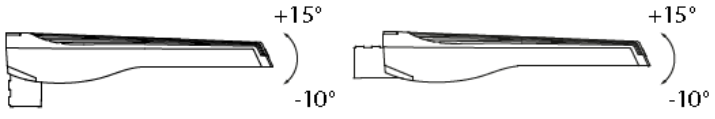
TEKK M



Inclinaison / Tilt



Inclinaison / Tilt



Conformités / Conformities

IEC/EN 60598-1 / IEC/EN 60598-2-3 / NF EN 60529 / NF EN 62262 / IEC/EN 55015 / IEC/EN 61547 / IEC/EN 61000-3.2 / IEC/EN 61000-3.3 / IEC/EN 62493 / IEC/EN 62031 / IEC/EN 62471 / IEC/EN 61347-1 / IEC/EN 61347-2-13 / NF EN 13201-3 / NF EN 13201-4 / EN 13032-1+A1 &prEn 13032-4 / LM79 / NF EN 12981

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Functional lighting range - street lighting

Technical characteristics

Electrical characteristics

- Power current up to 1050mA
- Electrical class: II (class I on request)
- Nominal voltage: 220-240V - 50/60 Hz
- Surge protector and over/under voltage protection (optional).
- Driver integrated into the luminaire
- Optional lighting management systems

Voltage range (V)

Tekk 8 LED	22-25 V
Tekk 16 LED	44-50 V
Tekk 24 LED	67-75 V
Tekk 32 LED	89-100 V
Tekk 48 LED	134-150 V
Tekk 64 LED	179-200 V

Thermal management

An integrated heat sink optimize the thermal control of the luminaire.

Fixation NEMA socket

NEMA socket connection

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Functional lighting range - street lighting

Lighting performance

FF PCB

The LED module equipping the Tekk luminaire ensures powerful and precise lighting. Its modularity allows adapting its specifications to offer numerous photometric possibilities.

- **Fabricant LED** / *LED manufacturer* : **CREE**
- **Durée de vie des LED** / *LED's life cycle* :
  jusqu'à / *up to* **100 000 heures** / *hours*.
  ex. / *i.e.*: **55 000 heures à** / *hours at* **70% @ 500 mA**
- **Température de couleur** / *Color temperature* : **3000K (4000K en option** / *on request*)
- **IRC supérieur à** / *CRI above* **70**

Powers and luminous intensities

LUMINAIRE OUTPUT DATA (Tj @ 85°C)

The Tekk is ideal to light roads. It has been designed to deliver high-performance road lighting and optimised to meet the requirements of the NF EN 13201 standard in terms of performance, but also of uniformity and glare.

3000 K

Utilising Light Engine (LE)	Nombre de LED / Number of LED	350 mA			500 mA			700 mA			1050 mA		
		P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
TEKK S – LE 8	8	10	994	99	14	1434	102	20	1818	91	29	2448	84
TEKK S – LE 16	16	21.4	1988	93	28.2	2867	102	36	3636	101	54.6	4895	90
TEKK M – LE 24	24	26.6	2982	112	37.4	4302	115	52.4	5455	104	80.5*	7342*	91*
TEKK M – LE 32	32	34.4	3976	116	48.8	5734	118	68.9	7271	106	106.2*	9789*	92*
TEKK M – LE 48	48	51	5964	117	72.6	8601	118	102.3	10907	107	157.2	14684	93
TEKK M – LE 64	64	67.1	7952	119	95.6	11468	120	135.2	14542	108	206.7	19578	95

*Tekk M uniquement / only

4000 K

Utilising Light Engine (LE)	Nombre de LED / Number of LED	350 mA			500 mA			700 mA			1050 mA		
		P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
TEKK S – LE 8	8	10	1074	107	14	1549	111	20	1966	98	29	2651	91
TEKK S – LE 16	16	21.4	2147	100	28.2	3097	110	36	3932	109	54.6	5301	97
TEKK M – LE 24	24	26.6	3220	121	37.4	4646	124	52.4	5897	113	80.5*	7952*	99*
TEKK M – LE 32	32	34.4	4294	125	48.8	6193	127	68.9	7863	114	106.2*	10602*	100*
TEKK M – LE 48	48	51	6441	126	72.6	9290	128	102.3	11795	115	157.2	15903	101
TEKK M – LE 64	64	67.1	8588	128	95.6	12387	130	135.2	15726	116	206.7	21204	103

*Tekk M uniquement / only

P_t (W) = Puissance totale avec consommation driver intégrée / P_t (W) = Total power consumption including driver consumption
Φ Flux nominal (lm) / Nominal flux (lm)
Efficacité lumineuse (lm/W) / Luminous efficiency (lm/W)

*The above data is to be used for guidance only and is subject to change as LED technology matures.

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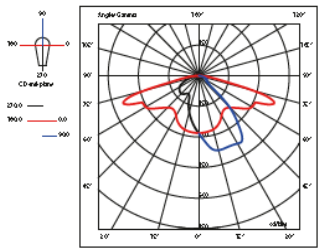
Functional lighting range - street lighting

Lighting performance

Photometric distributions

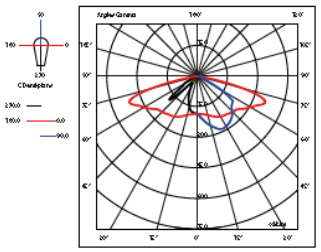
Asymmetrical road lighting

ASY06



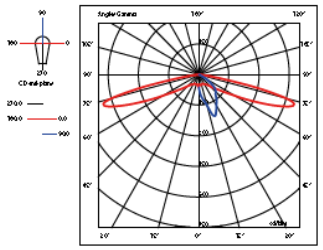
Designed for road lighting, the ASY06 lens is optimised for urban secondary roads (streets and avenues) when the width is normal to narrow.

ASY07



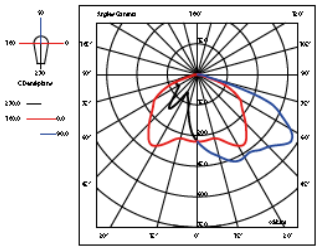
Designed for road lighting, the ASY07 lens is optimised for main and secondary roads (boulevards, streets and avenues) when the width is normal to large with adjacent roads (sidewalk, cycle path...).

ASY08



Designed for intensive road lighting. The ASY08 lens is optimised to adapt to the typology of the area to be lit. It is ideal for pedestrian paths and cycle paths.

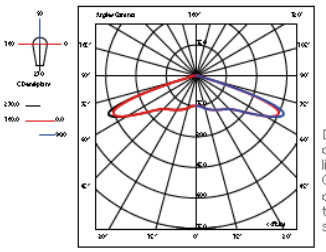
ASY09



Designed for very wide area lighting, the ASY09 lens is optimised for important urban roads and crossroads, when the width to illuminate is important.

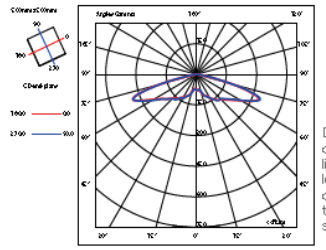
Circular distribution

CIR04



Designed for circular or rectangular ambient lighting. The lens CIR04 is optimised to offer broad distribution to cover maximum surface area.

CIR05



Designed for circular or rectangular ambient lighting. The CIR05 lens is optimised to offer broad distribution to cover maximum surface area.

Photometric ditributions

Utilising Light Engine (LE)		ASY06	ASY07	ASY08	ASY09	CIR04	CIR05
LE 8	PCB FF (2x4) - 8 LED			X			X
LE 16	PCB FF (2x8) - 16 LED	X	X		X	X	
LE 16	PCB FF (2x4) - 16 LED			X			X
LE 24	PCB FF (2x4) - 24 LED			X			X
LE 32	PCB FF (2x8) - 32 LED	X	X		X	X	
LE 32	PCB FF (2x4) - 32 LED			X			X
LE 48	PCB FF (2x8) - 48 LED	X	X		X	X	
LE 64	PCB FF (2x8) - 64 LED	X	X		X	X	

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X : standard - X : sur demande / on request

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Functional lighting range - street lighting

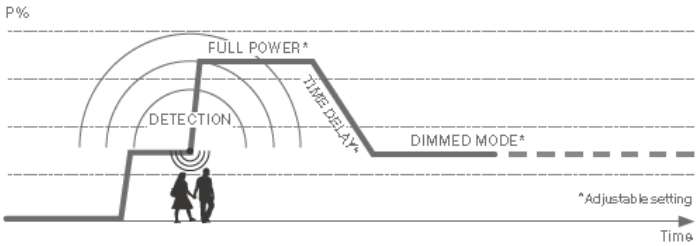
Lighting performance

Lighting management

The lighting management allows to adopt a thoughtful use of light at night depending on the lifestyles: you use lighting only when required and you apply a responsible lighting approach.

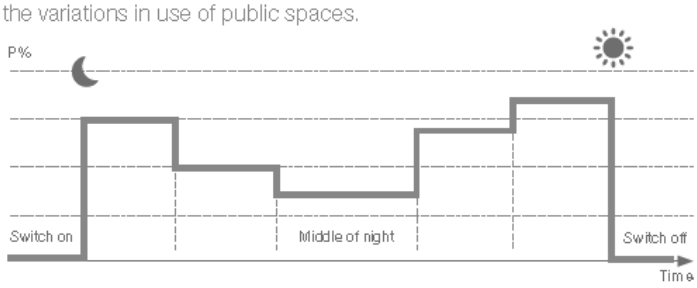
Presence detection

The presence detection enables a lighting control based on the traffic in the location to be lit.



Time-related dimming system

This option enables to program five levels of lighting associated with time slots (cf. graph). The battery-free automatic device calculates the duration and the midpoint of the night to offer a coherent dimming compared to the variations in use of public spaces.



Other management systems

- **Steady light output**
- **End-of-life indicator**
- **Progressive switch-on time for LED**
- **Graduation by means of voltage variation**
- **DALI communication**

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Functional lighting range - street lighting

Appearance

Technical and effective, the design of Tekk has been entirely designed by the Ragni teams.

- **Standard color**: Sanded Grey 2900
- **Option:** other colors on request.

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Top mounted

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Side mounted

A - St LUC murale
St LUC wall mounted

A - St LOUIS murale
St LOUIS wall mounted

C - TURIN - KIMA 600

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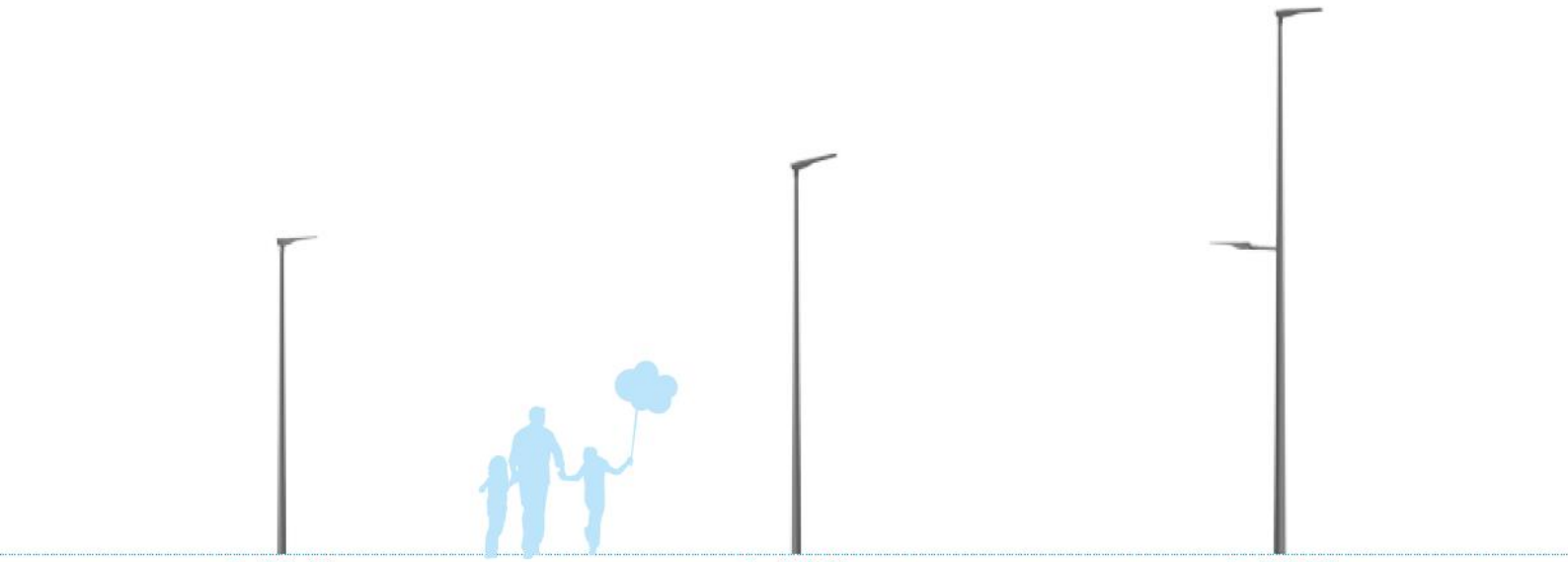
Functional lighting range - street lighting

Appearance



B - JIMA 400

B - JIMA 500

B - KIMA 700

D - NEPTIS - KIMA 600

E - STERIA - KIMA 700

F - PARME - JIMA 500

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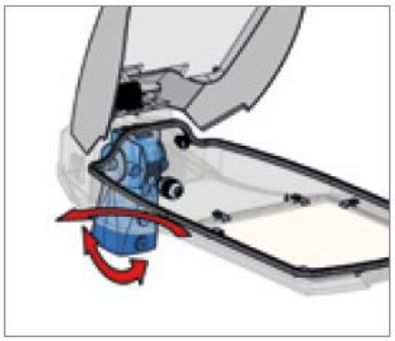
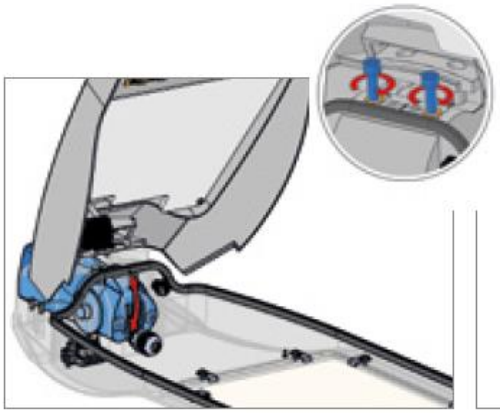
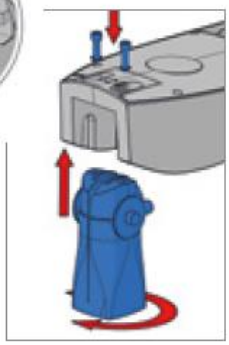
Functional lighting range - street lighting

Installation & maintenance

Installation



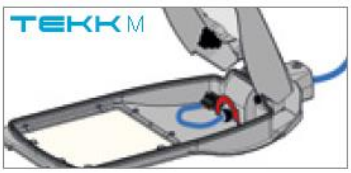


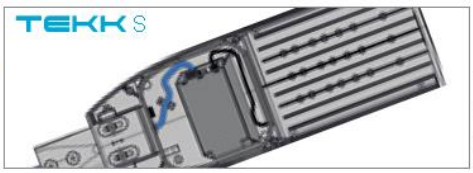


- Side mounted on Ø60 pole (Ø42/ Ø49 on request)
- Depth of insertion: 100 mm

- Top mounted on Ø60 pole (Ø76 on request)
- Depth of insertion: 100 mm

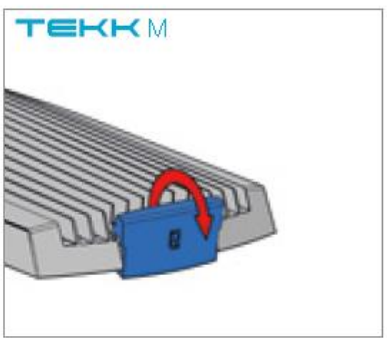
Sleeve adjustment for tilting by 5° steps. Position fixation by 2 CHC screws. Remove the sleeve and put it back in place by making a quarter of tour for positioning on top of mast.

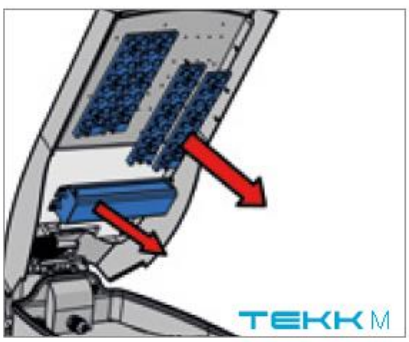


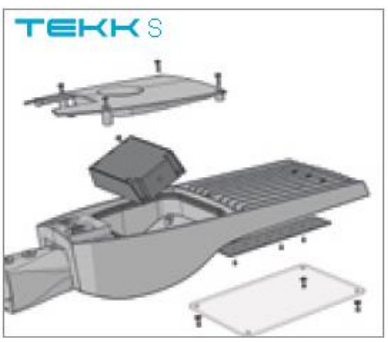


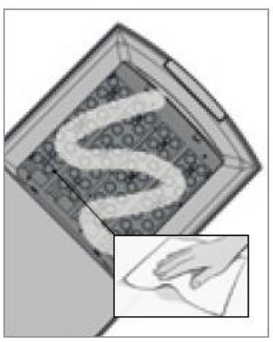
The cable enters the luminaire through an airtight membrane cable gland. It is then connected to a disconnector which automatically switches off the power upon opening.

Maintenance









For maintenance purposes: tool free opening hook. Power switches off automatically.

The driver is removed by unscrewing 2 screws. The LED module is removed by unscrewing the matching screws.

Upper hood maintained by 4 screws. The driver is removed by unscrewing 2 screws.

Glass cleaning.

TEKK

Ark Lighting Ltd, McGann House, Chesham, Barnsley, South Yorkshire, S70 2NT. Tel 01226 320737