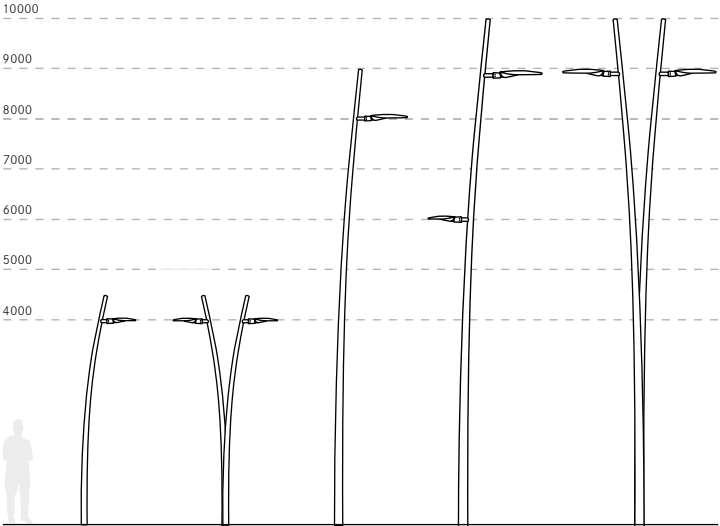
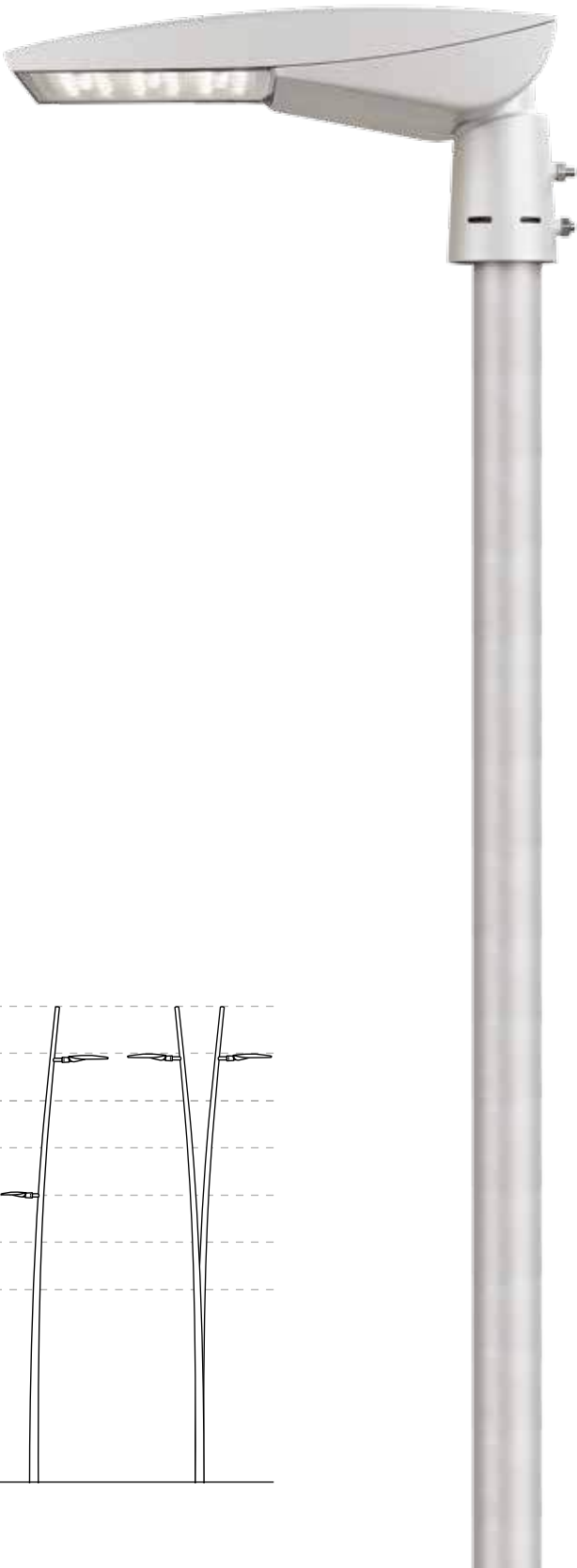


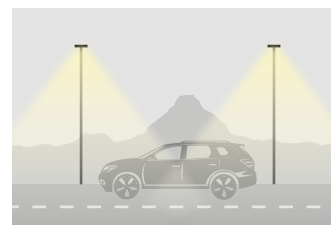
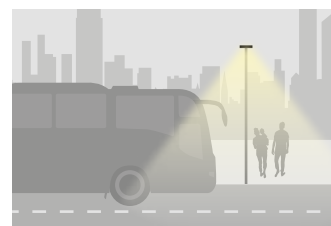
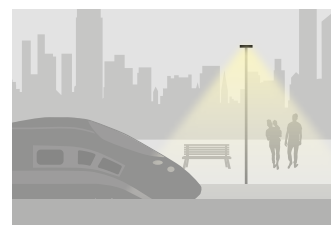
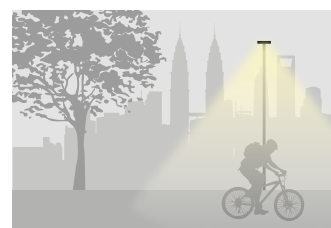
Kai

Fivep





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK08	Protezione contro gli urti <i>Protection against impact</i> Stoßfestigkeit
>0.90	Fattore di potenza <i>Power factor</i> Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune <i>Common mode overvoltage protection</i> Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale <i>Differential mode overvoltage protection</i> Schutz vor Gegentakt-Überspannungen
-30° C +50° C	Temperatura ambiente <i>Ambient temperature</i> Umgebungstemperatur
Sablé100 Noir Grey RAL9006	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 HM4 DALI Main voltage variation CLO 1-10V on request with HM4 Wireless on request PLC on request Pilot line on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



Installazione: palo, braccio, parete

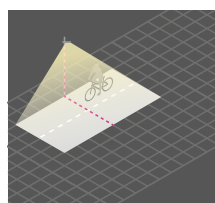
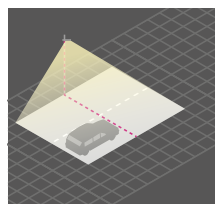
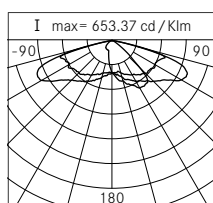
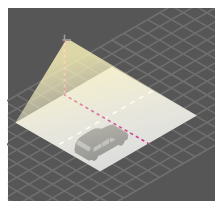
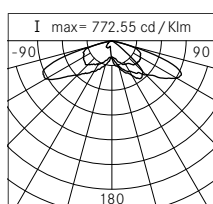
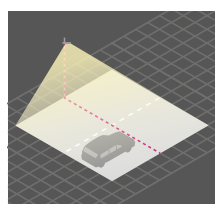
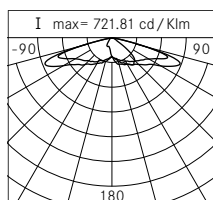
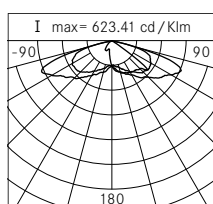
Installation: pole, arm, wall

Installation: Mast, Arm, Wand

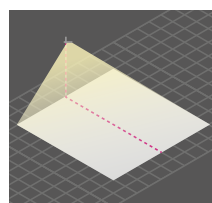
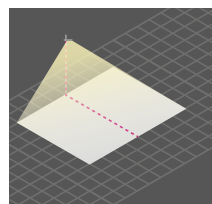
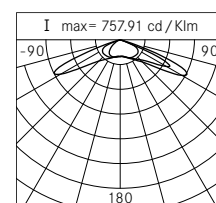
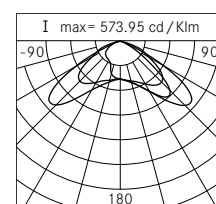
2135-23155lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle	≥ 70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off	> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur	> 160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali

Street asymmetrical optics Optik asymmetrisch straßenleuchte

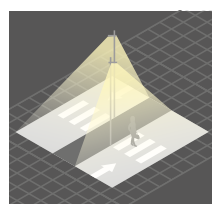
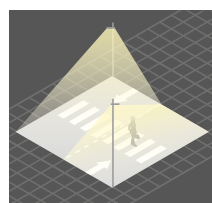
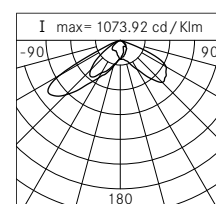
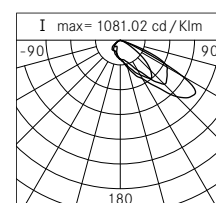
**ST-01** (L/H = 0.75)**ME-01** (L/H = 1)**ME-02** (L/H = 1.1)**LA-01** (L/H = 1.25)

Ottiche asimmetriche Asymmetrical optics Optik asymmetrisch

**LT-06** (L/H = 2)**LT-05** (L/H = 1.5)

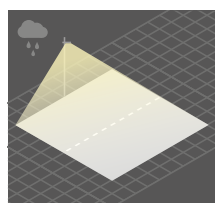
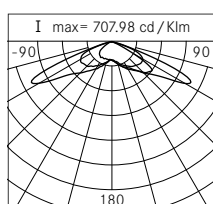
Ottiche per attraversamenti pedonali

Pedestrian crossing optics Optik für Fußgängerüberwege

**AP-01_SX****AP-01_DX**

Ottiche per manto bagnato

Wet surface optics Optik asymmetrisch straßenleuchte

**MB-01**

L = Larghezza strada, *Street Width*, Straßenbreite
H = Altezza palo, *Pole Height*, Lichtpunkthöhe



Sistema ottico multilayers
Multilayer optical system
Optisches System “Multilayer”



Cut – Off
Cut – Off
Cut – Off



Im/W
Greater energy efficiency
Höhere Energieeffizienz



Resistenza agenti chimici/atmosferici
Resistance to chemical/atmospheric agents
Widerstand chemische/atmosphärische



Prodotto orientabile
Orientable product
Ausrichtbares Produkt



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Ottica attraversamenti pedonali
Optics for pedestrian crossings
Optik für Fußgängerüberwege



Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K



Maggiore durata vita delle sorgenti
Longer lifetime of sources
Längere Lebensdauer von Leuchtmitteln



Resistenza sovratensioni fino a 10kV
Overvoltage resistance up to 10kV
Überspannungsfestigkeit bis 10kV



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung



Ottica manto bagnato
Optics for wet surfaces
Optik für nasse Straßenbeläge



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



Ta -30°C +50°C
Ta -30°C +50°C
Ta -30°C +50°C



CLO (Constant Lumen Output)
CLO (Constant Lumen Output)
CLO (Constant Lumen Output)



Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit

Average energy saving

56 %

	KAI	Lighting fixtures with SODIUM LAMPS
65% Energy Saving	25W LED	70W LAMPS
	29W Total Power	83W Total Power
57% Energy Saving	50W LED	100W LAMPS
	57W Total Power	115W Total Power
57% Energy Saving	75W LED	150W LAMPS
	83W Total Power	176W Total Power
CRI	> 70	> 25
Life Time	> 160.000 hr	16.000 hr

+ additional 20% of energy saving with standard dimming system

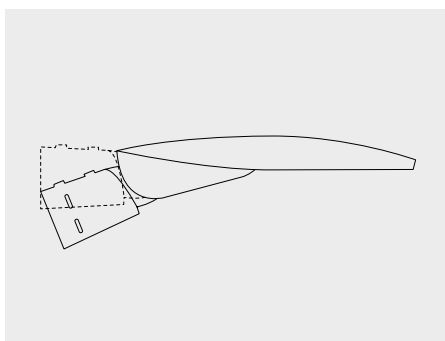
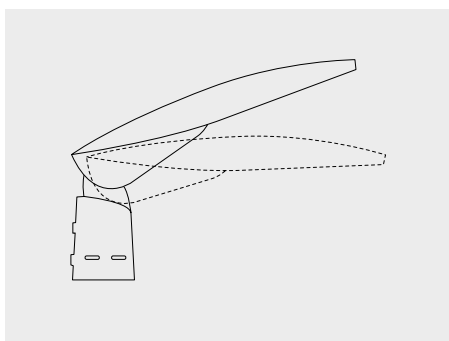
Maintenance savings

Average life time LED > 160.000 hr > 20 years



Sodium lamps life time 16.000 hr = Nr 1 lamps change every 4 years (4200 hr / year)





Installazione

Apertura del vano alimentazione tool-less.
Installazione su pali o bracci con Ø 76 mm.
Forniti sistemi di riduzione per pali
con Ø 46-60 mm.

Dispositivo di ancoraggio al palo regolabile
senza necessità di aprire l'armatura.

Inclinazione in configurazione verticale
(lato palo): 0° + 20°, con passo 5°;
inclinazione in configurazione orizzontale
(braccio): 0° - 20°, con passo 5°.

Installation

*Tool-less opening of the power supply
housing. Mounting on Ø 76 mm poles
or arms. Adapters for Ø 46-60 mm poles
provided.*

*System for anchoring to poles which can
be adjusted without opening the casing.
Inclination in vertical configuration
(pole side): 0° + 20°, in 5° steps;
inclination in horizontal configuration (arm):
0° - 20°, in 5° steps.*

Installation

Werkzeuglose Öffnung des
Stromversorgungsfaches. Installation
an Masten oder Auslegern mit Ø 76 mm.
Verringerungssysteme für Maste mit
Ø 46-60 mm mitgeliefert.

Vorrichtung für die Verankerung am Mast
einstellbar, ohne dass die Armierung
geöffnet werden muss.

Neigung in vertikaler Konfiguration
(auf der Mastseite): 0° + 20°, mit 5°-Step;
Neigung in horizontaler Konfiguration
(Ausleger): 0° - 20°, mit 5°-Step.



Manutenzione

Sostituibilità semplice e veloce del gruppo ottico e del gruppo di alimentazione.

Agendo sulle due clips di chiusura del coperchio, senza utilizzo di utensili, questo si può ribaltare lasciando libero accesso al gruppo di alimentazione e al gruppo ottico. All'apertura del vano componenti avviene una disconnessione elettrica automatica grazie all'intervento di un sezionatore che interrompe il circuito elettrico d'alimentazione e seziona i Led. La piastra porta-componenti del gruppo di alimentazione è facilmente sostituibile con lo sblocco dei fermi di aggancio alla struttura dell'armatura e lo scollegamento dei connettori elettrici rapidi resi irreversibili per forma.

Il gruppo ottico può essere rimosso rapidamente senza utilizzo di utensili: dopo l'apertura del prodotto è sufficiente svincolare il coperchio sul quale sono fissati i moduli Led.

Maintenance

Simple and rapid substitution of the optical unit and the power unit. By unfastening the two closure clips on the cover, which can be done without the use of tools, the cover can be opened, providing access to the power and the optical unit. On opening the component compartment the electricity supply is automatically interrupted via a disconnecter which interrupts the power circuit and isolates the LEDs. The wiring compartment for the power unit can be easily substituted by unfastening the holding clips and disconnecting the rapid power connectors, the shape of which renders it impossible to confuse them.

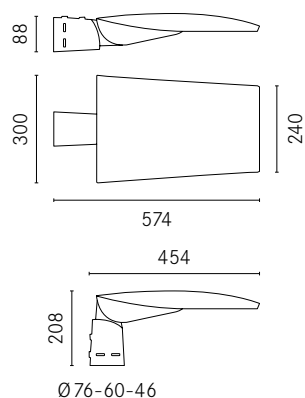
The optical unit can be quickly removed without the use of tools: once the item has been opened, it is sufficient to detach the cover to which the LED modules are attached.

Wartung

Einfache und schnelle Auswechselbarkeit der Optik- und Stromversorgungseinheit. Durch Betätigung der beiden Verschluss-Clips des Deckels, kann dieser ohne Verwendung von Werkzeugen weggeklappt werden, um freien Zugang zur Stromversorgungs- und Optikeinheit zu ermöglichen. Wenn das Komponentenfach geöffnet wird, erfolgt eine automatische elektrische Trennung dank des Eingriffes eines Trennschalters, der den elektrischen Versorgungskreis unterbricht und die LEDs trennt. Die Verkabelungsplatte der Stromversorgungseinheit kann leicht ausgewechselt werden, indem die Feststeller an der Armierungsstruktur entriegelt werden und die elektrischen Schnellverbinder, die aufgrund ihrer Form irreversibel sind, getrennt werden. Die Optikeinheit kann schnell ohne Verwendung von Werkzeugen entfernt werden: Nach der Öffnung des Produkts ist lediglich der Deckel, an dem die Module befestigt sind, zu befreien.

220 240V	50 60Hz	CL II	IP66	IK08
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Kai brackets and poles small



Max weight: 6.5kg

Max exposed surface: 0.13m²Lateral exposed surface: 0.036m²Kai S
01K11

Led (source flux) Ref. @700mA @4000K

4035lm 24W	5340lm 32W	7960lm 48W	11810lm 72W
B2	B6	C4	D6

Led (source flux) Ref. @700mA @3000K

3845lm 24W	5095lm 32W	7590lm 48W	11260lm 72W
B2	B6	C4	D6

mA: HM3

HM4

700	525	350	700	525	350
0	0	5	0	5	3

K

4000	3000	2200*	*Only 48W and 72W Optics ME-01 / LA-01 / LT-6
0	9	1	

Optics

ST-01	ME-01	ME-02	LA-01	LT-06	LT-05	MB-01
30	32	33	31	37	38	40

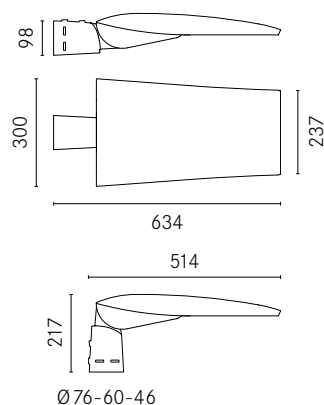
Colors

RAL9006	Sablé100
A	C

Smart Lighting

Preset virtual midnight	Custom programmable virtual midnight
HM3	HM4

Kai brackets and poles small x



Max weight: 7.5kg

Max exposed surface: 0.14m²Lateral exposed surface: 0.042m²Kai SX
01K13

Led (source flux) Ref. @700mA @4000K

11810lm 72W	15410lm 95W
D6	E8

Led (source flux) Ref. @700mA @3000K

11260lm 72W	14695lm 95W
D6	E8

mA: HM3

HM4

700	525	350	700	525	350
0	0	5	0	5	3

K

4000	3000
0	9

Optics

ST-01	ME-01	ME-02	LA-01	LT-06	LT-05
30	32	33	31	37	38
AP-DX	AP-SX	MB-01			
36	34	40			

Colors

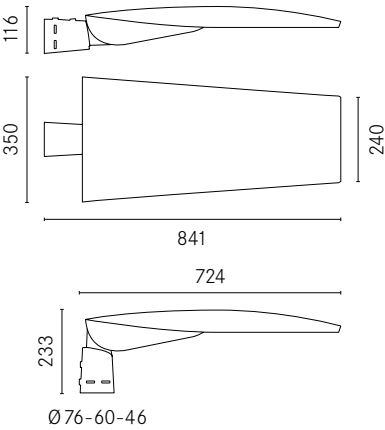
RAL9006	Sablé100
A	C

Smart Lighting

Preset virtual midnight	Custom programmable virtual midnight
HM3	HM4

Kai Brackets and poles

Kai brackets and poles medium



Max weight: 11 kg
Max exposed surface: 0.24 m²
Lateral exposed surface: 0.059 m²

Kai M			
01K12			
Led (source flux) Ref. @700mA @4000K			
15410lm 95W		19400lm 119.5W	
E8		G0	
		23155lm 143W	
		H2	
Led (source flux) Ref. @700mA @3000K			
14695lm 95W		18500lm 119.5W	
E8		G0	
		22080lm 143W	
		H2	
mA: HM3		HM4	
700 525 350		700	525
0		0	5
			350
			3
K			
4000	3000		
0	9		
Optics			
ST-01	ME-01	ME-02	LA-01
30	32	33	31
LT-06	MB-01		
37	40		
Colors			
RAL9006	Sablé100		
A	C		
Smart Lighting			
Preset virtual midnight		Custom programmable virtual midnight	
HM3		HM4	

Esempio Example Beispiel

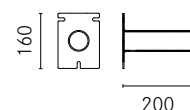
01K12	E8	0	0	32	A	HM4
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Accessori *Accessories* Zubehör**06GN902C0**

Piastra a muro 90°

90° Wall plate

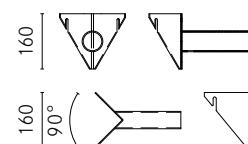
90° Wandplatte

**06GN901C0**

Piastra angolare 90°

90° Corner plate

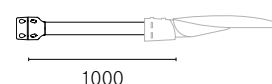
90° Eckplatte

**01AK921C0 - Sablé100**

B1 Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm

B1 Arm tubular Ø60mm L 1000mm for Ø60-76mm pole

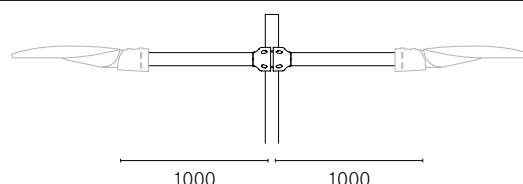
B1 Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm

**01AK922C0 - Sablé100**

B2 Braccio tubolare doppio Ø60mm L 1000mm per palo Ø60-76mm

B2 Double arm tubular Ø60mm L 1000mm for Ø60-76mm pole

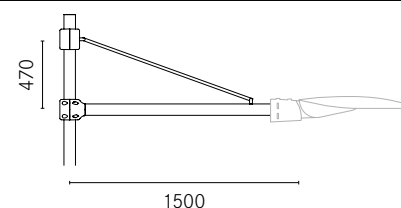
B2 Doppelarm Rohr Ø60mm L 1000mm für Masten Ø60-76mm

**01AK923C0 - Sablé100**

B3 Braccio tubolare singolo Ø60mm L 1500mm con tirante per palo Ø60-76mm

B3 Arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole

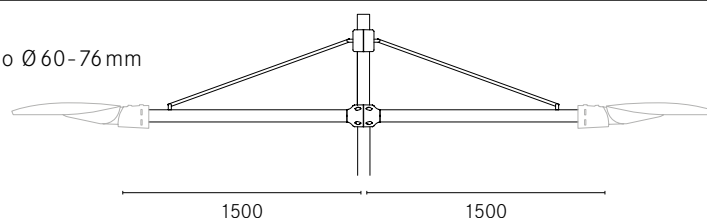
B3 Arm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm

**01AK924C0 - Sablé100**

B4 Braccio tubolare doppio Ø60mm L 1500mm con tirante per palo Ø60-76mm

B4 Double arm tubular Ø60mm L 1500mm with tensioning rod for Ø60-76mm pole

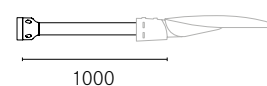
B4 Doppelarm Rohr Ø60mm L 1500mm mit Zugstange für Masten Ø60-76mm

**01AK951C0 - Sablé100**

B1-P Braccio tubolare singolo Ø60mm L 1000mm per palo Ø60-76mm

B1-P Arm tubular Ø60mm L 1000mm for Ø60-76mm pole

B1-P Arm Rohr Ø60mm L 1000mm für Masten Ø60-76mm



Metalmek Lighting B.V

Canadabaan7-d
5388 RT Nistelrode
Tel. 0412-614033

info@metalmek.nl
www.metalmek.nl