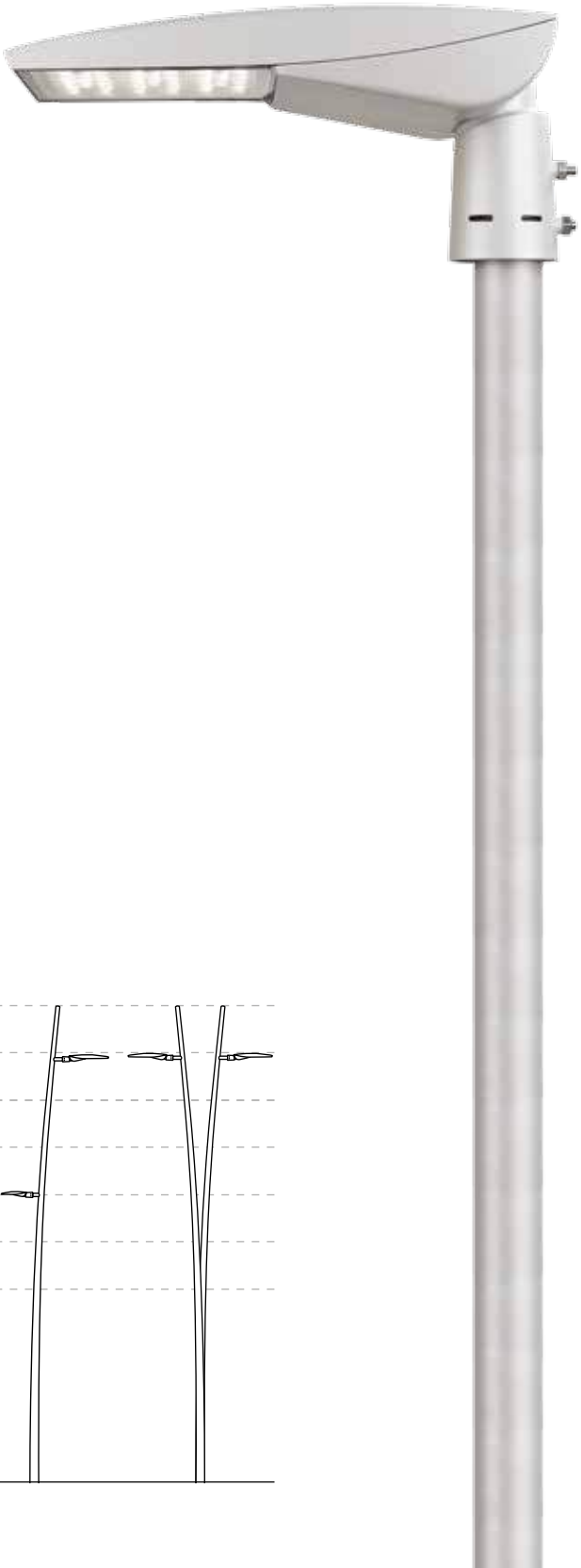
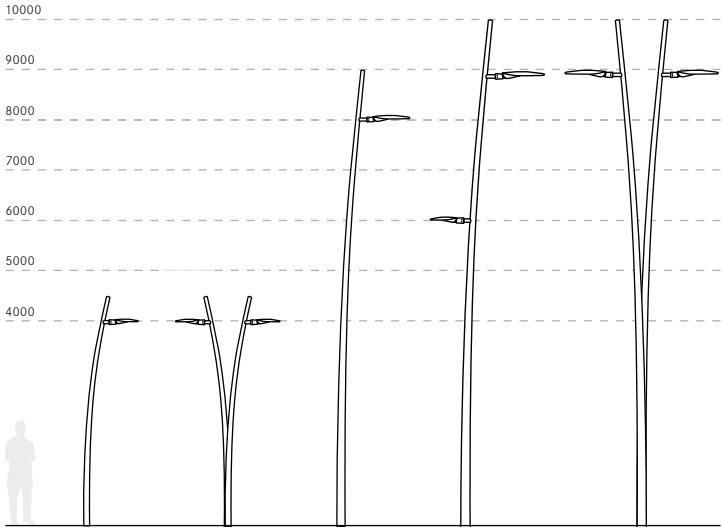


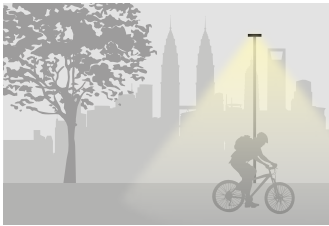
Kai

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
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

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 per manto bagnato
Wet surface optics Optik asymmetrisch straßenleuchte

	MB-01	
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≥70	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20 > 160.000h @700mA @Ta25°C TM21 L80B10	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen

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	

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

Approfondimento sistemi ottici, *Deepening optical systems*, Vertiefung optischen Systeme P. 308
Approfondimento sistemi di smart lighting, *Deepening smart lighting systems*, Vertiefung intelligenten Beleuchtungssysteme P. 310



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



Cut – Off
Cut – Off
Cut – Off



Maggiore efficienza energetica
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

23 years

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

4 years



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

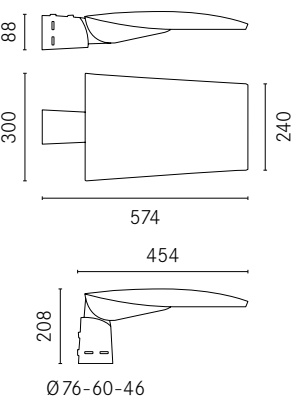
Simple and rapid substitution of the optical unit and the power unit. By unfastening the two closure clips on the cover, which can be done without the use of tools, the cover can be opened, providing access to the power and the optical unit. On opening the component compartment the electricity supply 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.

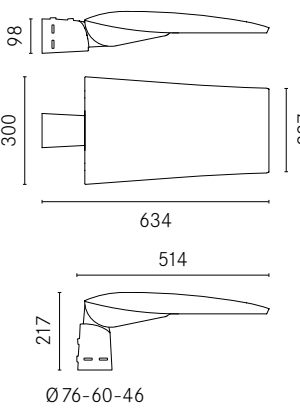
220 240V	50 60Hz	CL II	IP66	IK08
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Kai brackets and poles small



Max weight: 6.5kg
Max exposed surface: 0.13m²
Lateral exposed surface: 0.036m²

Kai brackets and poles small x

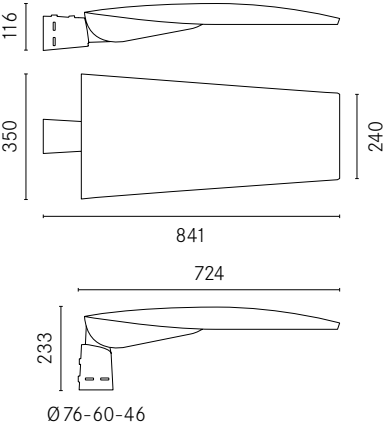


Max weight: 7.5kg
Max exposed surface: 0.14m²
Lateral exposed surface: 0.042m²

Kai S 01K11					
Led (source flux) Ref. @700mA @4000K					
4035lm 24W B2		5340lm 32W B6		7960lm 48W C4	11810lm 72W D6
Led (source flux) Ref. @700mA @3000K					
3845lm 24W B2		5095lm 32W B6		7590lm 48W C4	11260lm 72W D6
mA: HM3		HM4			
700 525 350 0		700 0	525 5	350 3	
K					
4000 0	3000 9	2200* 1	*Only 48W and 72W Optics ME-01 / LA-01 / LT-6		
Optics					
ST-01 30	ME-01 32	ME-02 33	LA-01 31	LT-06 37	LT-05 38
MB-01 40					
Colors					
RAL9006 A	Sablé100 C				
Smart Lighting					
Preset virtual midnight HM3		Custom programmable virtual midnight HM4			

Kai SX 01K13					
Led (source flux) Ref. @700mA @4000K					
11810lm 72W D6		15410lm 95W E8			
Led (source flux) Ref. @700mA @3000K					
11260lm 72W D6		14695lm 95W E8			
mA: HM3		HM4			
700	525	350	700	525	350
0			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 medium



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

Esempio *Example* Beispiel

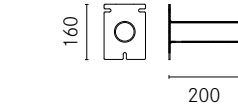
01K12	E8	0	0	32	A	HM4
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Kai M			
01K12			
Led (source flux) Ref. @700mA @4000K			
15410lm 95W		19400lm 119.5W	
E8		G0	
		23155lm 143W	
		H2	
Led (source flux) Ref. @700mA @3000K			
14695lm 95W		18500lm 119.5W	
E8		G0	
		22080lm 143W	
		H2	
mA: HM3		HM4	
700 525 350		700	525 350
0		0	5 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	

Accessori *Accessories* Zubehör

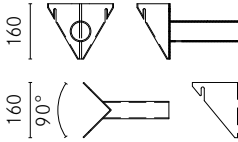
06GN902C0

Piastra a muro 90°
90° Wall plate
90° Wandplatte



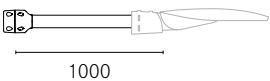
06GN901C0

Piastra angolare 90°
90° Corner plate
90° Eckplatte



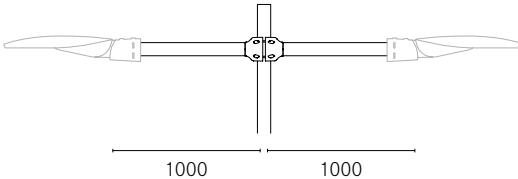
01AK921C0 - Sablé100

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



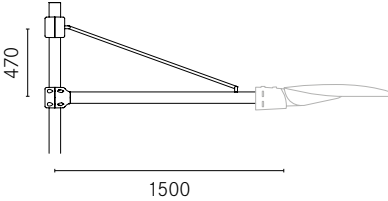
01AK922C0 - Sablé100

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



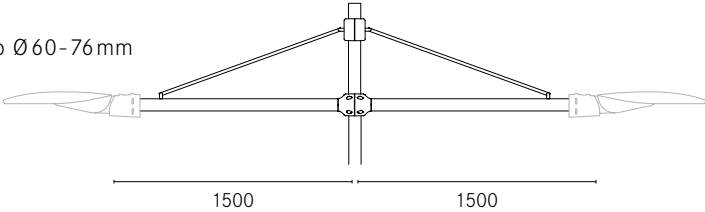
01AK923C0 - Sablé100

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

