

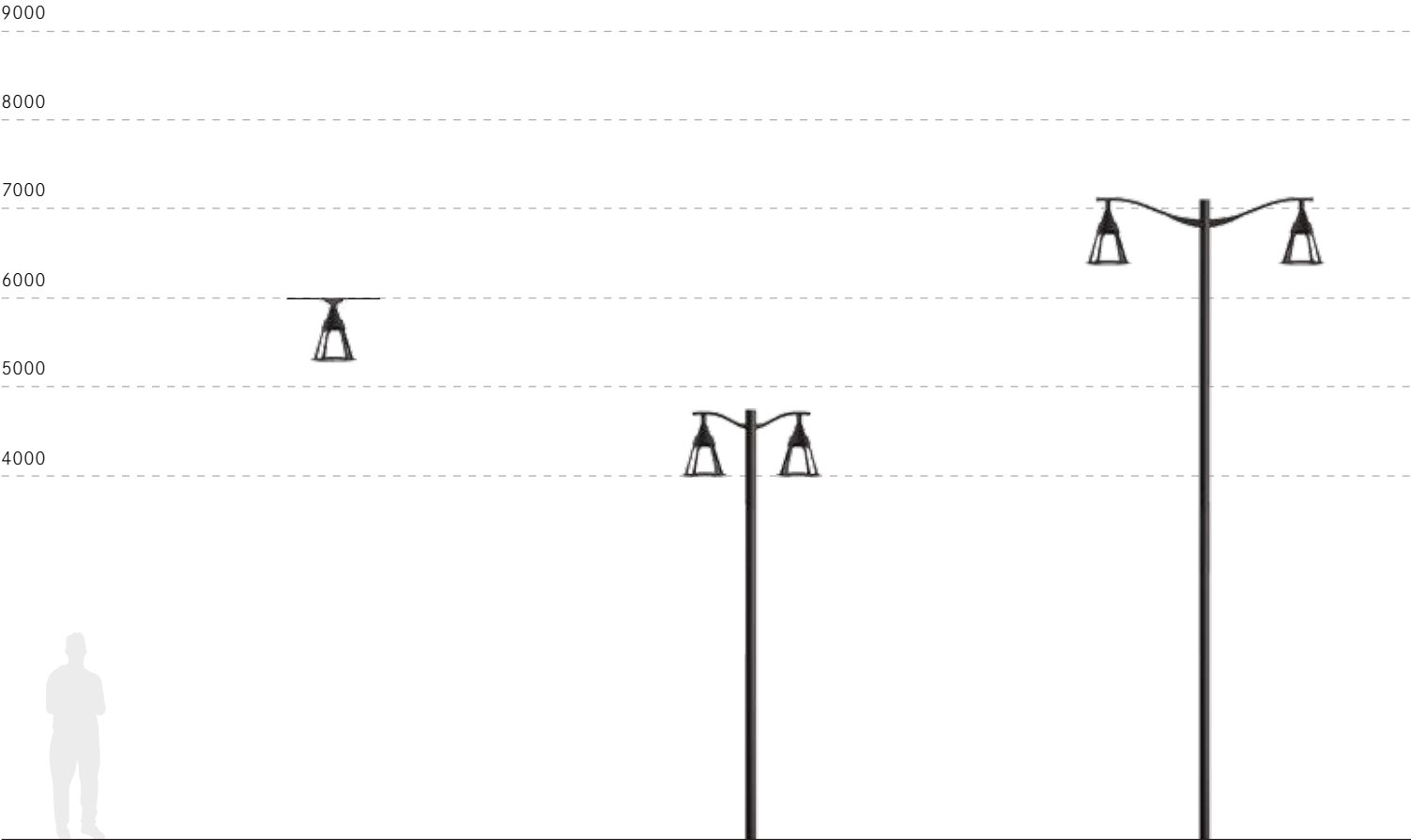
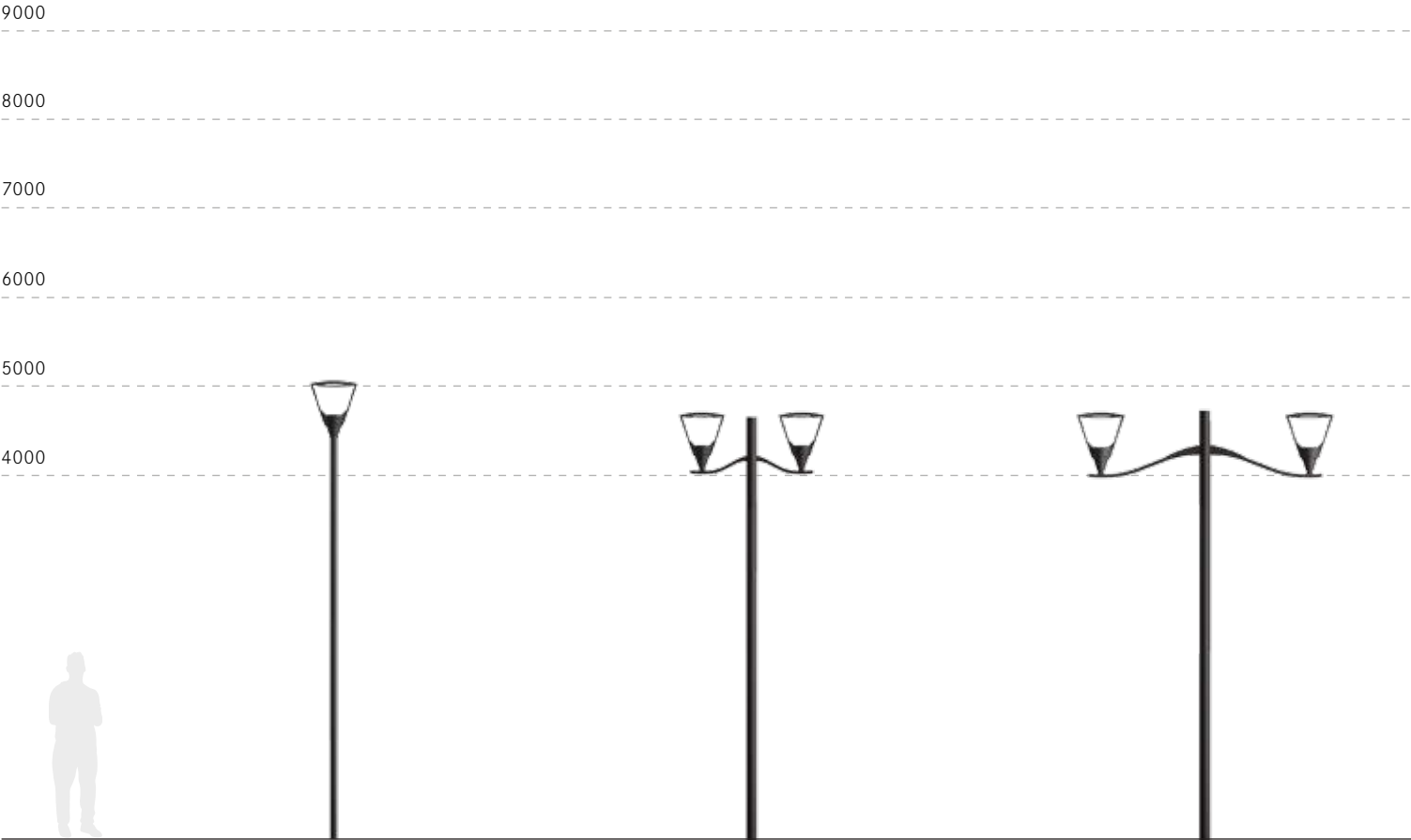
Kalos

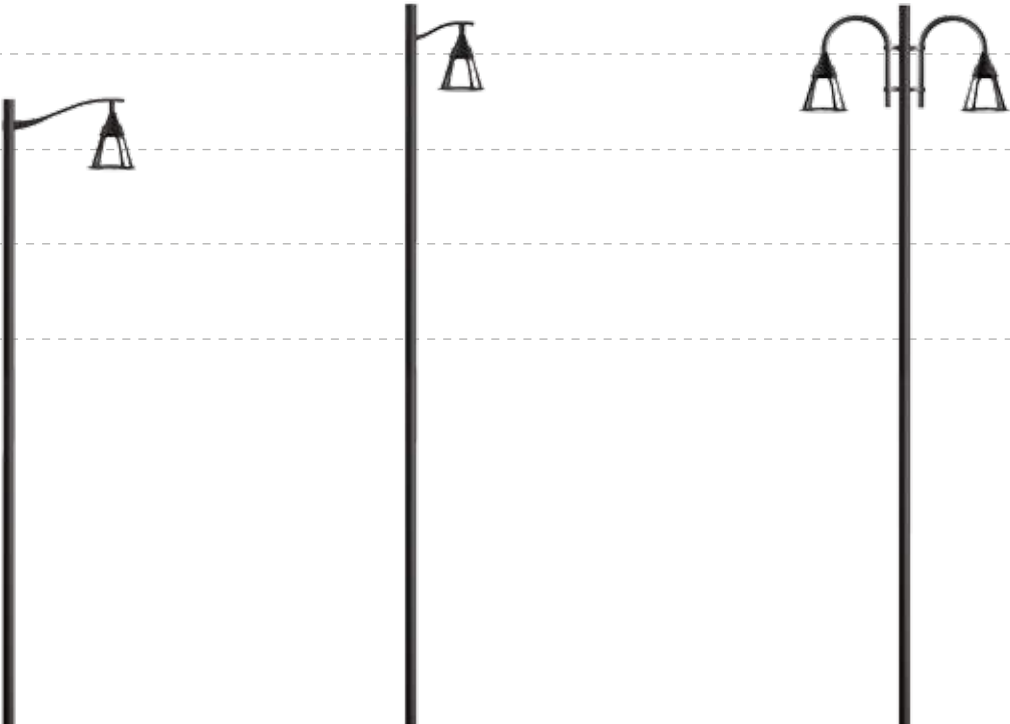
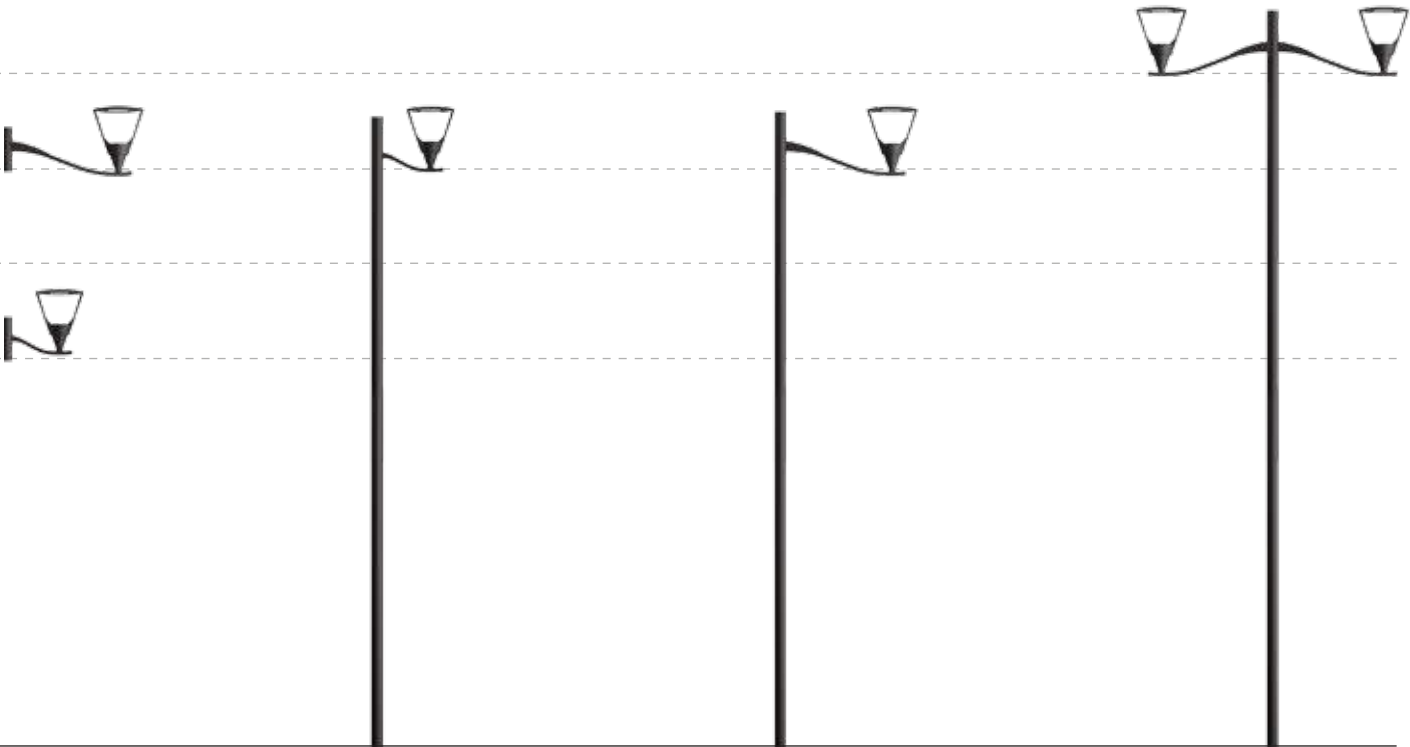
Fivep



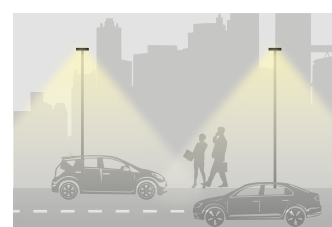
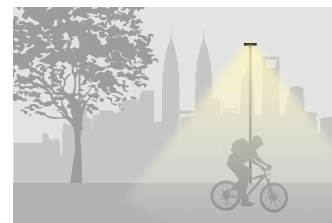
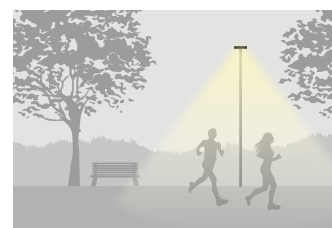


Kalos





220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	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	Colori <i>Colours</i> Farben
Included	Alimentazione elettronica <i>Electronic power supply</i> Elektronische Stromversorgung
HM3 CLO 1-10V Wireless on request PLC on request DALI on request Motion detectors / brightness on request	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung



Installazione: palo, braccio, parete, tesata

Installation: pole, arm, wall, string

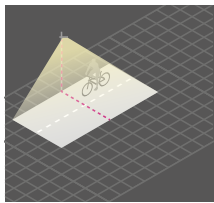
Installation: Mast, arm, Wand, Drahtseil

2120-15435lm	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

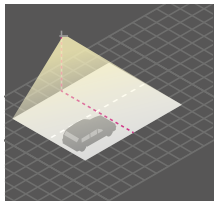
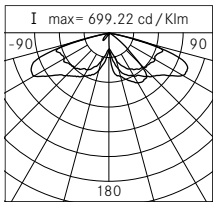
≥70 ≥80 on request	Indice di resa cromatica (CRI) <i>Colour rendering index (CRI)</i> Farbwiedergabe-Index (CRI)
> 160.000h @700mA @Ta25°C TM21 L80B20	Durata di vita delle sorgenti <i>Source lifetime</i> Lebensdauer der Quellen
> 160.000h @700mA @Ta25°C TM21 L80B10	

Ottiche asimmetriche stradali

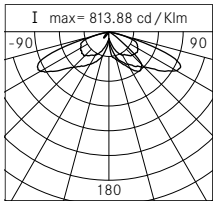
Street asymmetrical optics Optik asymmetrisch straßenleuchte



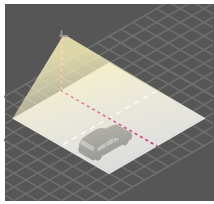
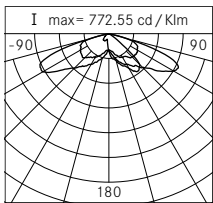
ST-01 (L/H = 0.75)
UP pole-side system



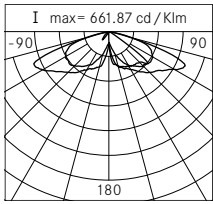
ME-01 (L/H = 1)
UP pole-side system



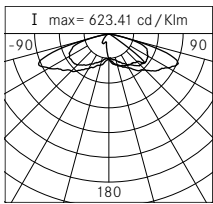
ME-01 (L/H = 1)
DOWN pole-side system



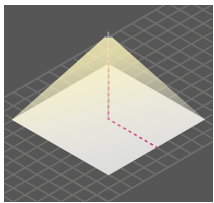
LA-01 (L/H = 1.25)
UP pole-side system



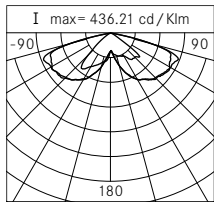
LA-01 (L/H = 1.25)
DOWN pole-side system



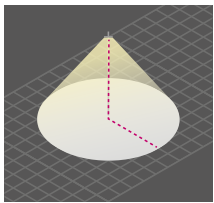
Ottiche Front & Back *Front & Back optics* Straßenoptik Front & Back Optik



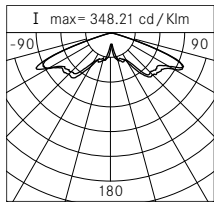
ST-01 (L/H = 0.75) +
LA-01 (L/H = 1.25)
UP pole-side system



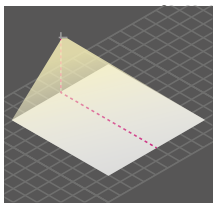
Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



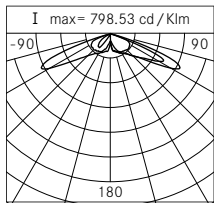
RS-01
UP pole-side system



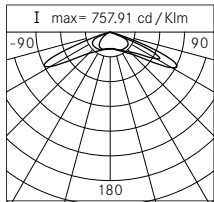
Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



LT-06 (L/H = 2)
UP pole-side system

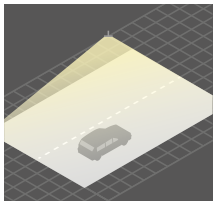


LT-06 (L/H = 2)
DOWN pole-side system

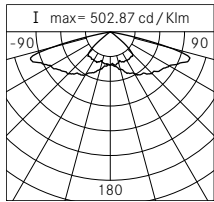


Ottiche simmetriche stradali

Street symmetrical optics Optik symmetrisch straßenleuchte



SO-01
string suspension



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

Kalos



Sistema ottico multilayers
Multilayer optical system
Optisches System "Multilayer"



CRI $\geq$ 80 SMCD=4 su richiesta
CRI $\geq$ 80 SMCD=4 on request
CRI $\geq$ 80 SMCD=4 auf Anfrage



Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz



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



Dimensioni compatte
Dimensions compact
Kompakten Abmessungen



Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit



Cut - Off
Cut - Off
Cut - Off



Ottica Front&Back
Front&Back optics
Optik Front&Back



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



Trasporti ottimizzati
Shipping optimization
Transport optimiert



Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung



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



Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung



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



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



Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit



Installazione UP&DOWN

Il sistema di fissaggio Kalos può essere installato in configurazione UP (testa palo o bracci in configurazione portata) o DOWN (sospensione su bracci o su fune tesata).

La versione UP è disponibile sia con due che con quattro bracci, quella DOWN è standard con quattro bracci. La versione UP quattro bracci può assumere una forma più classicheggiante se corredata del cappello dedicato.

UP&DOWN installation

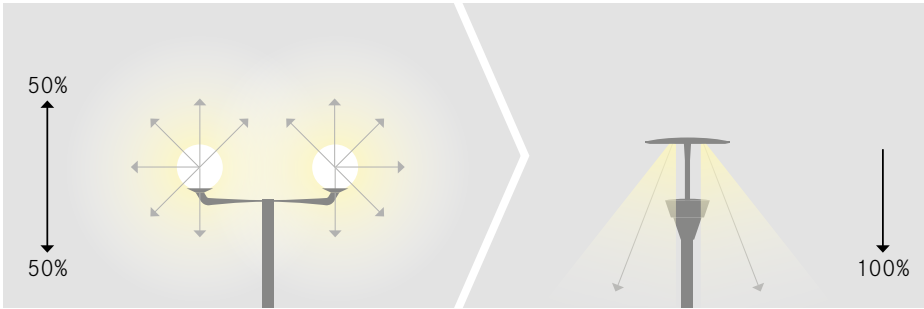
The Kalos fastening system can be installed in the UP position (post top or arm in supported position) or DOWN (suspended from arms or wire).

The UP version is available with two or four arms, while the DOWN version has four arms as standard. The four-arm UP version can assume a more classic form with the fitting of the special cover.

UP&DOWN-Installation

Das Kalos-Befestigungssystem kann in UP-Konfiguration (Mastkopf oder Ausleger in tragender Konfiguration) oder in DOWN-Konfiguration (Aufhängung an Auslegern oder an einem gespannten Drahtseil) installiert werden.

Die UP-Version ist sowohl mit zwei als auch mit vier Auslegern erhältlich, während die DOWN-Version standardmäßig über vier Ausleger verfügt. Die UP-Version mit vier Auslegern kann eine klassischere Form annehmen, wenn sie mit einer spezifischen dekorativen Abdeckung ausgestattet ist.



Energy Saving	75%
Light Pollution	0%
Life time	>50.000 h
On-off	immediately
Warranty	5 years

Impatto ambientale ridotto

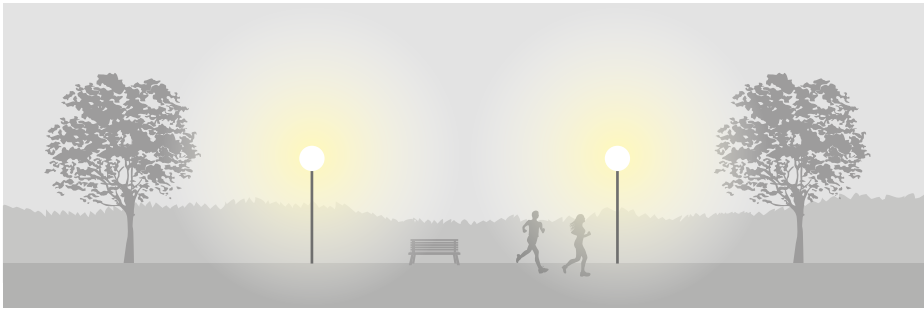
La sostituzione di vecchi punti luce a lampada con i prodotti della linea Kalos consente un elevato risparmio energetico e una riduzione dell'inquinamento luminoso. (Cut-Off)

Reduced environmental impact

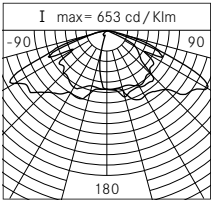
The substitution of old light-bulb units with products from the Kalos line allows for elevated energy saving and a reduction of light pollution. (Cut-Off)

Reduzierte Umweltbelastung

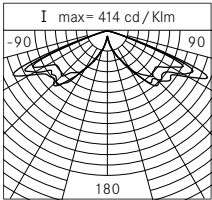
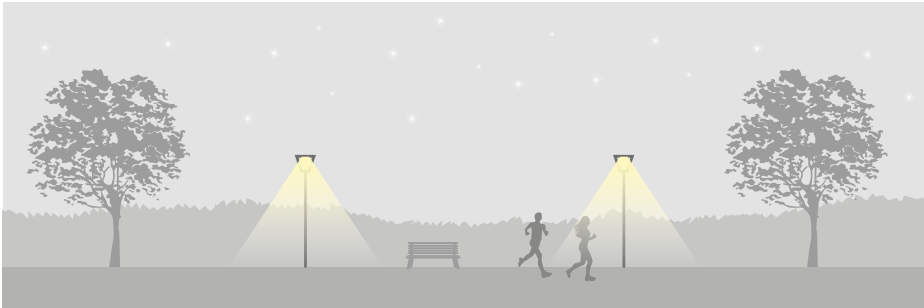
Die Auswechslung alter Glühlampen-Lichtpunkte mit den Produkten der Kalos-Produktreihe ermöglicht eine hohe Energieeinsparung und eine Verringerung der Lichtverschmutzung. (Cut-Off)



H: Altezza palo *Pole height* Masthöhe
H1: Altezza fonte luce *Height of the lighting source* Lichtpunkthöhe
D: Interdistanza *Interdistance* Abstand
I/H: Rapporto interdistanza / altezza *Interdistance / height ratio* Verhältnis Abstand / Höhe
La: Larghezza strada *Street width* Straßenbreite
Emed: Illuminamento medio *Average illumination* Mittelbeleuchtung
Emin: Illuminamento minimo *Minimum illumination* Mindeste Beleuchtungsstärke
W: Potenza totale *Totale absorbed Power* Systemleistung
STR: Ottica stradale *Street optic* Straßenoptik
ROT: Ottica rotosimmetrica *Rotosymmetrical optics* Rotosymmetrische Optik

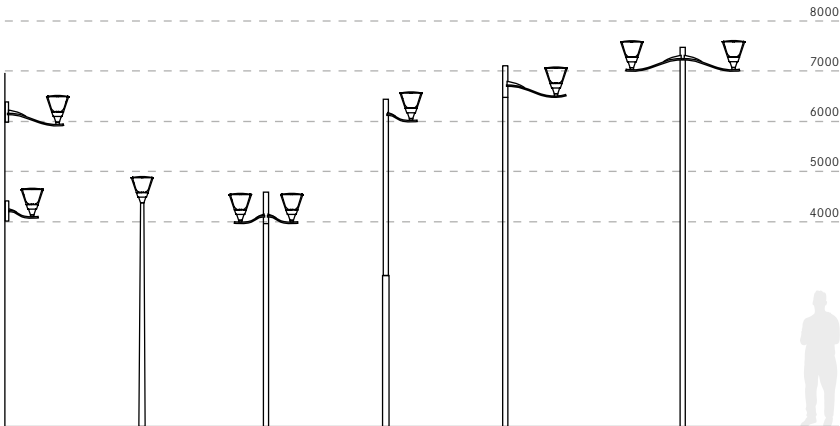


	H	H1	D	I/H	La	Emed	Emin	W
UNI 11248 (p2)				10	3			
KALOS 12 525 LED STR ST-01	4	4.6	22.5	5.6	3	137	4.94	20
CERVIA 125W QE	4	4.6	22.5	5.6	3	8	3	138
Energy saving	10LED 20W		vs		QE 125W 138W		-83%	

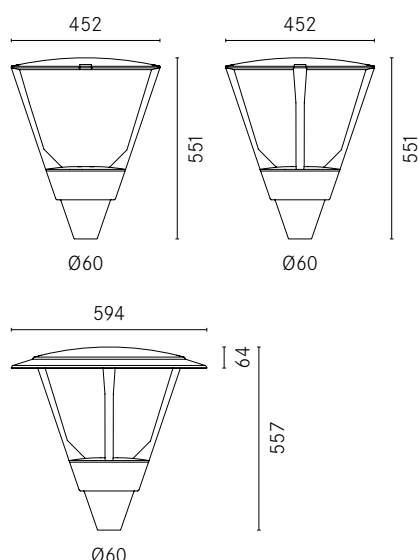


	H	H1	E Medio	U0	W
80W QE	4	4.6	6	0.28	88
125W QE	4	4.6	10	0.28	138
100W SE	4	4.6	17	0.28	115
KALOS 12 350 LED ROT	4	4.6	7,5	0.34	14.5
KALOS 12 700 LED ROT	4	4.6	11	0.34	28
Energy saving	12LED 14.5W		vs	QE 88W 88W	
Energy saving	12LED 28W		vs	QE 125W 138W	
					-83%
					-66%

220 240V	50 60Hz	CL II	IP66	IK09
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Kalos UP brackets and poles



Max weight: 8 kg

Max exposed surface: 0.16 m²

Lateral exposed surface: 0.068 m²

Kalos UP 2 arms 01KA4	Kalos UP 4 arms 01KA5
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Led (source flux) Ref. @700mA @4000K

3965lm 24W B2	7845lm 48W C4	11660lm 72W D6
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Led (source flux) Ref. @700mA @3000K

3780lm 24W B2	7480lm 48W C4	11120lm 72W D6
-------------------------	-------------------------	--------------------------

mA

700 525 350 0

K

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

ST-01 30	ME-01 32	LA-01 31	RS-01 35	LT-06 37	*3965lm + 3965lm **7845lm + 7845lm
ST-01 + LA-01* 76		ST-01 + LA-01** 77			

Colors

Sablé100 C

Smart Lighting

Preset virtual midnight HM3

Esempio Example Beispiel

01KA4	B2	0	0	35	C	HM3
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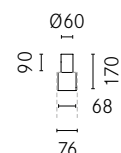
Accessori Accessories Zubehör

01AY904C0 - Sablé100

Riduzione Ø60-68mm per pali Ø76mm

Reduction Ø60-68mm for poles Ø76mm

Reduktion Ø60-68mm für Ø76mm Masten

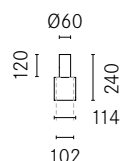


01SC913C0 - Sablé100

Riduzione Ø60-114mm per pali Ø102mm

Reduction Ø60-114mm for poles Ø102mm

Reduktion Ø60-114mm für Ø102mm Masten

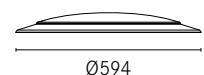


01KA901C0 - Sablé100

Cappello (solo per versione 4 chele)

Decorative upper cover (only for version 4 arms)

Dekorative Abdeckung (nur für version 4 Armen)



Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

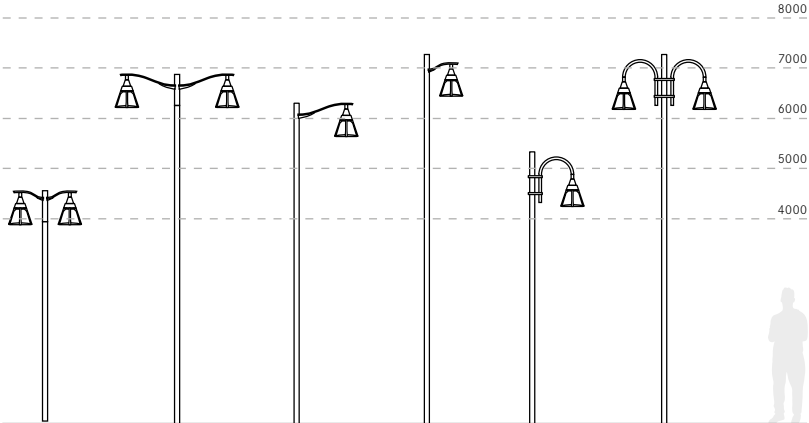
220
240V

50
60Hz

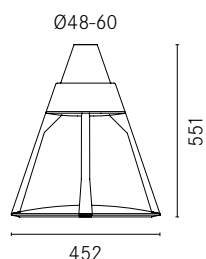
CL II

IP66

IK09



Kalos DOWN brackets and poles



Max weight: 8 kg

Max exposed surface: 0.16m²

Lateral exposed surface: 0.068m²

Kalos DOWN 4 arms

01KA6

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

3965lm 24W

B2

7845lm 48W

C4

11660lm 72W

D6

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

3780lm 24W

B2

7480lm 48W

C4

11120lm 72W

D6

mA

700 525 350

0

K

4000

0

3000

9

Optics

ME-01

32

LA-01

31

LT-06

37

Colors

Sablé100

C

Smart Lighting

Preset virtual midnight

HM3

Esempio *Example* Beispiel

01KA6

B2

0

0

32

C

HM3

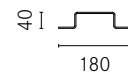
Accessori *Accessories* Zubehör

01KA915C0 - Sablé100

B53 Kit sospensione plafone

B53 Ceiling suspension kit

B53 Deckenaufhängung



Versione con LED rosso, disponibili altre colorazioni su richiesta

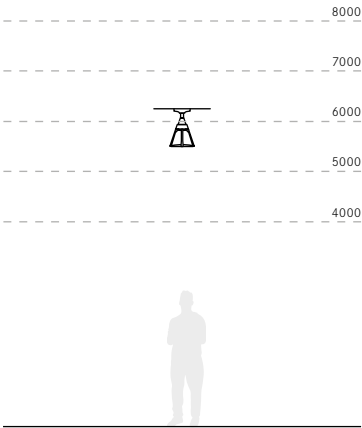
Version with red LED, on request other colors are available

Version mit rotem LED, auf Anfrage sind andere Farben lieferbar

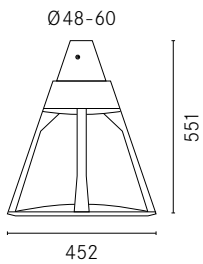


Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240 V	50 60 Hz	CL II	IP66	IK09
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Kalos DOWN string suspension



Max weight: 8 kg

Max exposed surface: 0.16 m²

Lateral exposed surface: 0.068 m²

Kalos DOWN 4 arms

01KA6

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

7845 lm 48 W

C4

15435 lm 95 W

E8

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

7480 lm 48 W

C4

14720 lm 95 W

E8

mA

700 525 350

0

K

4000

0

3000

9

Optics

SO-01

39

Colors

Sablé100

C

Smart Lighting

Preset virtual midnight

HM3

Esempio *Example* Beispiel

01KA6

C4

0

0

39

C

HM3

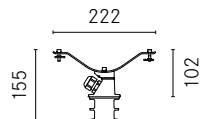
Accessori *Accessories* Zubehör

01KA925C0 - Sablé100

Kit sospensione fune tesata Ø 6-12 mm

Suspension kit for string Ø 6-12 mm

Aufhängungskit auf Drahtseil Ø 6-12 mm



Versione con LED rosso, disponibili altre colorazioni su richiesta

Version with red LED, on request other colors are available

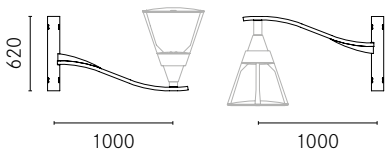
Version mit rotem LED, auf Anfrage sind andere Farben lieferbar



Accessori *Accessories* Zubehör

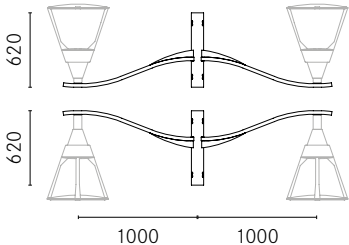
01KA902C0 - Sablé100

B35 Braccio L 1000mm per palo Ø102mm con codolo TP Ø60mm H 120mm
B35 Arm L 1000mm for pole Ø102mm with adapter Ø60mm mast top H 120mm
B35 Ausleger L 1000mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm



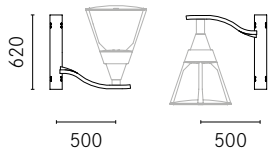
01KA903C0 - Sablé100

B36 Braccio doppio L 1000mm per palo Ø102mm con codolo TP Ø60mm H 120mm
B36 Double arm L 1000mm for pole Ø102mm with adapter Ø60mm mast top H 120mm
B36 Doppelausleger L 1000mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm



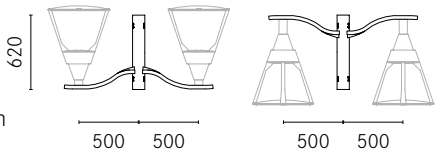
01KA904C0 - Sablé100

B37 Braccio L 500mm per palo Ø102mm con codolo TP Ø60mm H 120mm
B37 Arm L 500mm for pole Ø102mm with adapter Ø60mm mast top H 120mm
B37 Ausleger L 500mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm



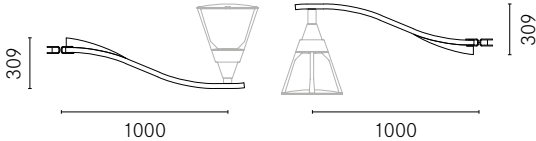
01KA905C0 - Sablé100

B38 Braccio doppio L 500mm per palo Ø102mm con codolo TP Ø60mm H 120mm
B38 Double arm L 500mm for pole Ø102mm with adapter Ø60mm mast top H 120mm
B38 Doppelausleger L 500mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm



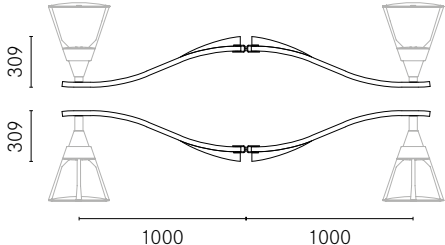
01KA906C0 - Sablé100

B39 Braccio L 1000mm con anello per pali Ø102mm
B39 Arm L 1000mm with ring for pole Ø102mm
B39 Ausleger L 1000mm mit bring für Mast Ø102mm



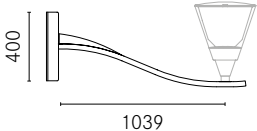
01KA907C0 - Sablé100

B44 Braccio doppio L 1000mm con anello per pali Ø102mm
B44 Double arm L 1000mm with ring for pole Ø102mm
B44 Doppelausleger L 1000mm mit bring für Mast Ø102mm



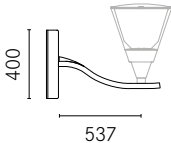
01KA910C0 - Sablé100

B39-P Braccio per parete L 1000mm
B39-P Wall bracket L 1000mm
B39-P Wandausleger L 1000mm



01KA911C0 - Sablé100

B45-P Braccio per parete L 500mm
B45-P Wall bracket L 500mm
B45-P Wandausleger L 500mm

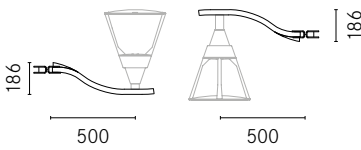


01KA908C0 - Sablé100

B45 Braccio L 500mm con anello per pali Ø102mm

B45 Arm L 500mm with ring for pole Ø102mm

B45 Ausleger L 500mm mit bring für Mast Ø102mm

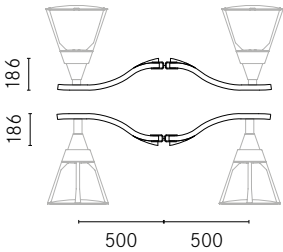


01KA909C0 - Sablé100

B46 Braccio doppio L 500mm con anello per pali Ø102mm

B46 Double arm L 500mm with ring for pole Ø102mm

B46 Doppelausleger L 500mm mit bring für Mast Ø102mm

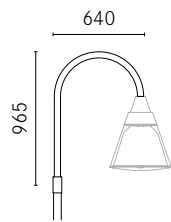


01AK932C0 - Sablé100

B12 Braccio pastorale L 640mm Ø60mm per palo TP Ø60mm

B12 Pastoral arm L 640mm Ø60mm for pole post top Ø60mm

B12 Ausleger gebogen L 640mm Ø60mm für Mast Mastkopf Ø60mm

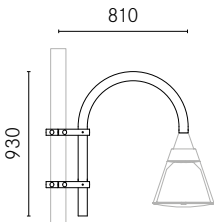


01AK935C0 - Sablé100

B15 Braccio pastorale L 810mm Ø60mm per palo Ø102mm

B15 Pastoral arm L 810mm Ø60mm for pole Ø102mm

B15 Ausleger gebogen L 810mm Ø60mm für Mast Ø102mm

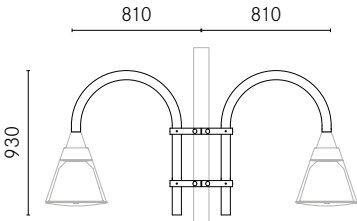


01AK936C0 - Sablé100

B16 Braccio pastorale doppio L 810mm Ø60mm per palo Ø102mm

B16 Double pastoral arm L 810mm Ø60mm for pole Ø102mm

B16 Doppelausleger gebogen L 810mm Ø60mm für Mast Ø102mm



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