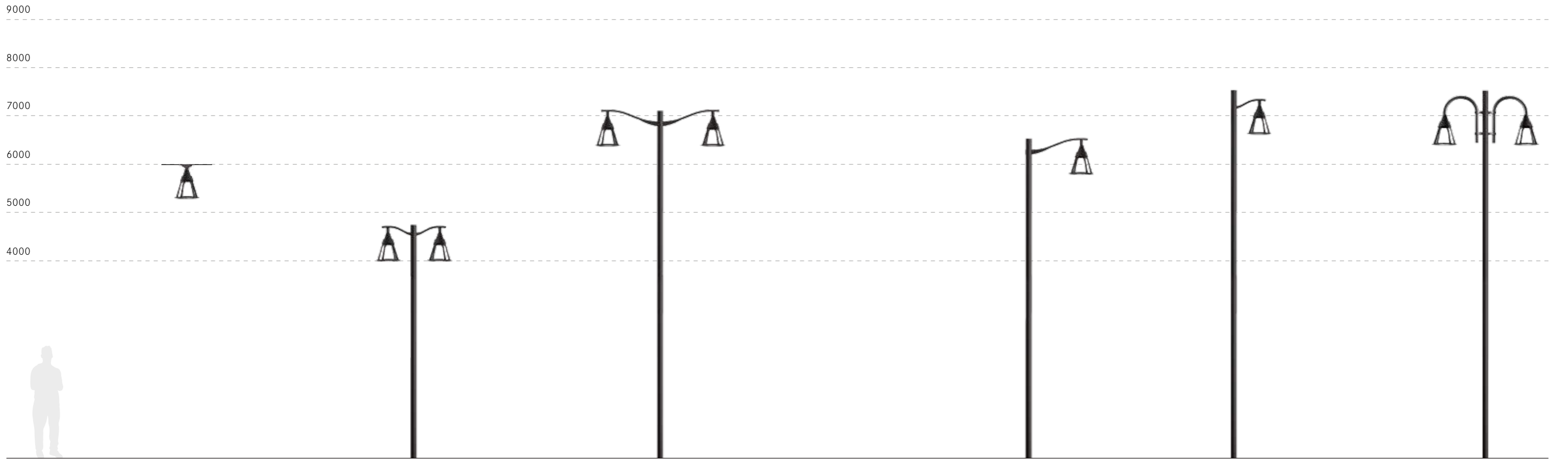
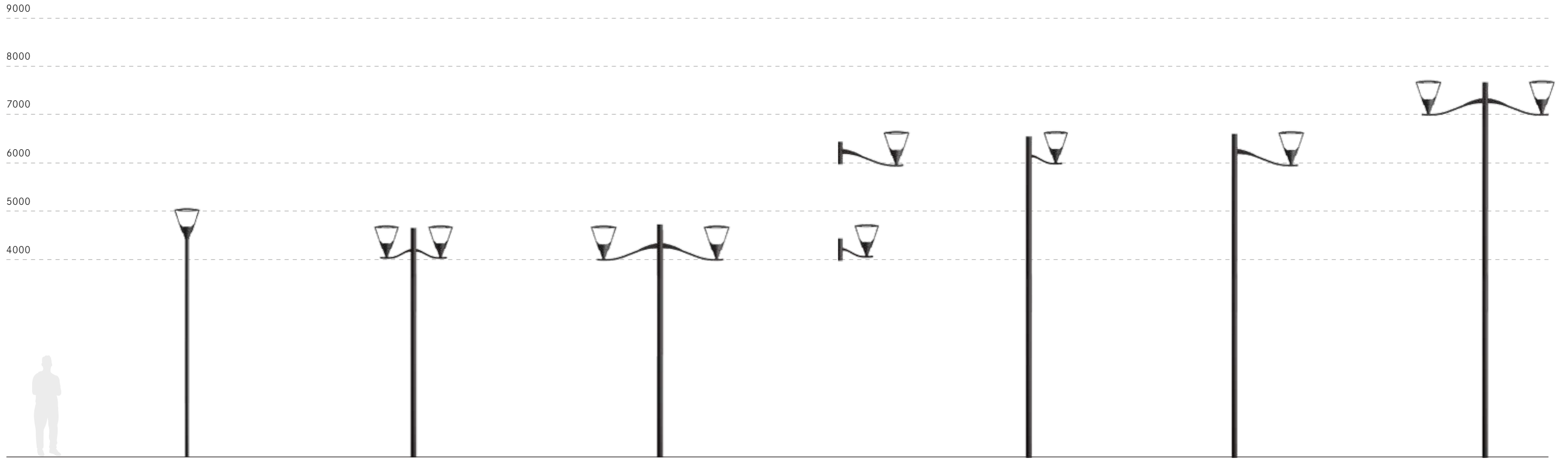


Kalos

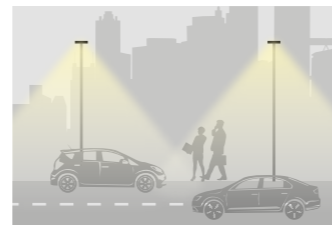
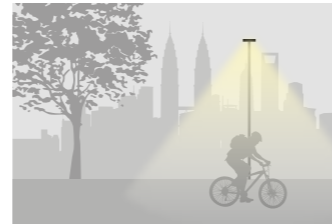
Fivep







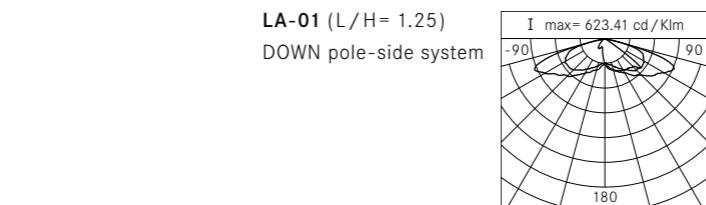
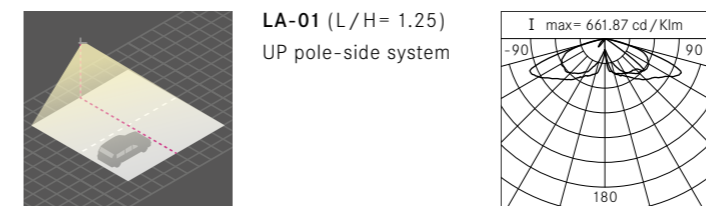
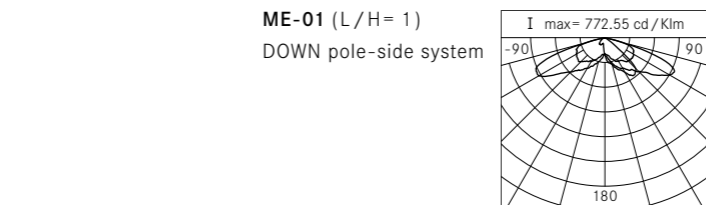
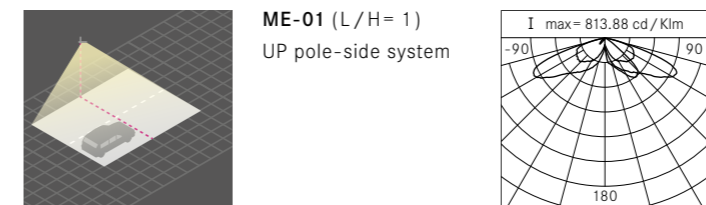
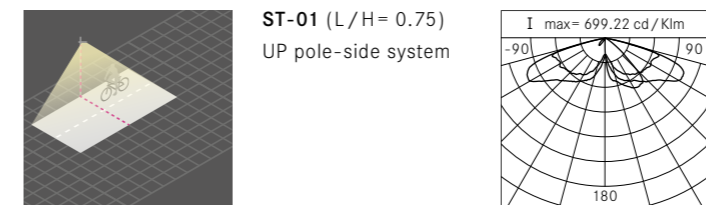
220-240V 50/60Hz	Tensione di alimentazione <i>Nominal voltage</i> Nennspannung
CL I on request CL II	Classe di isolamento elettrico <i>Electrical insulation class</i> Elektrische Isolierklasse
IP66	Grado di protezione <i>Insulation protection degree</i> Isolationsschutzgrad
IK09	Protezione contro gli 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	Illuminazione intelligente <i>Smart Lighting</i> Intelligente Beleuchtung
Wireless on request PLC on request DALI on request Motion detectors / brightness on request	



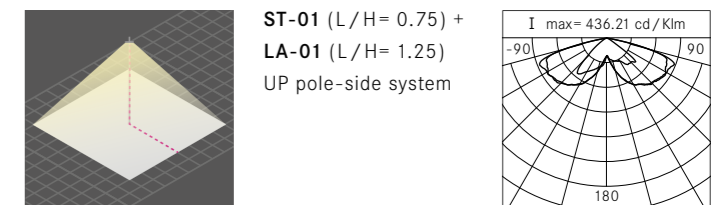
2120- 15435lm	Flusso sorgente <i>Source flux</i> Lichtstrom der Lichtquelle
ULOR: 0% DLOR: 100%	Cut-Off <i>Cut-Off</i> Cut-Off
4000K 3000K 2200K	Temperatura colore <i>Colour temperature</i> Farbtemperatur

≥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	

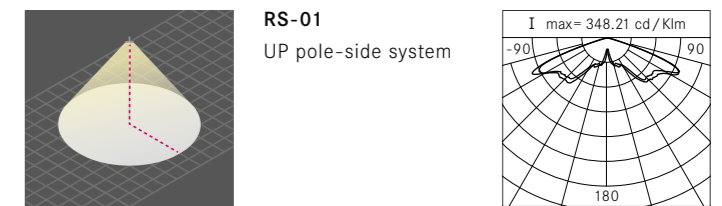
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



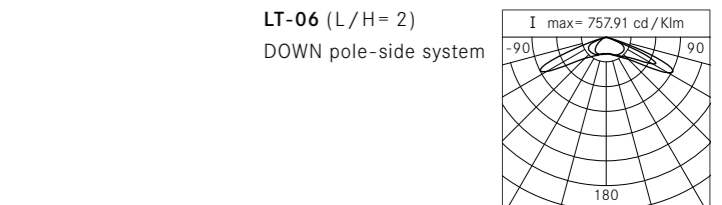
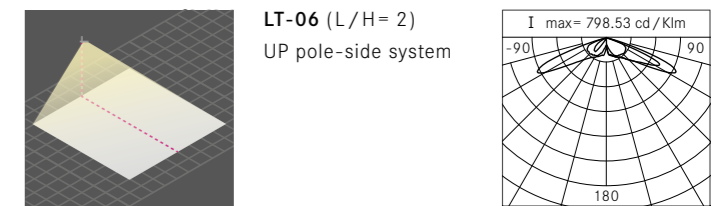
Ottiche Front & Back *Front & Back optics* Straßenoptik Front & Back Optik



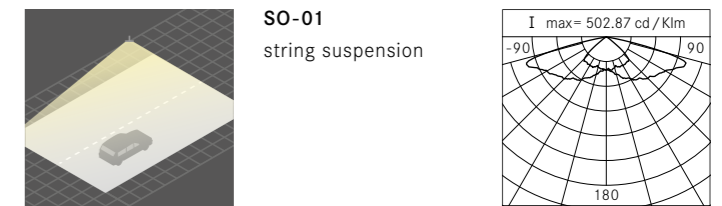
Ottiche rotosimmetriche *Rotosymmetrical optics* Optik rotosymmetrisch



Ottiche asimmetriche *Asymmetrical optics* Optik asymmetrisch



Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte





Installazione: palo, braccio, parete, tesata
Installation: pole, arm, wall, string
Installation: Mast, arm, Wand, Drahtseil


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"

 CRI≥80 SMCD=4 su richiesta
CRI≥80 SMCD=4 on request
CRI≥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

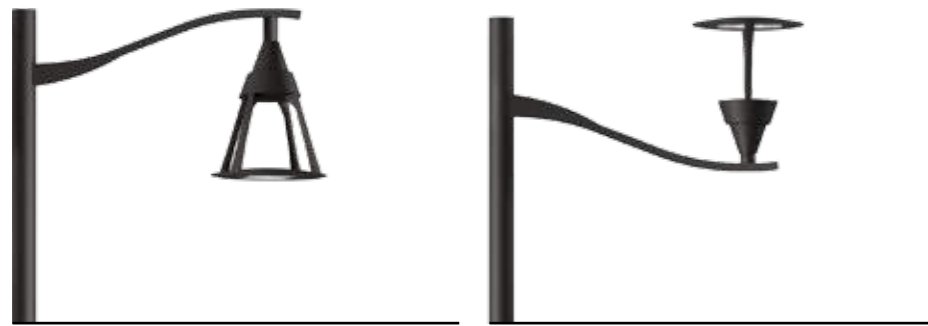
 2200K
Luce calda 2200K
Warm Light 2200K
Warme Licht 2200K

 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

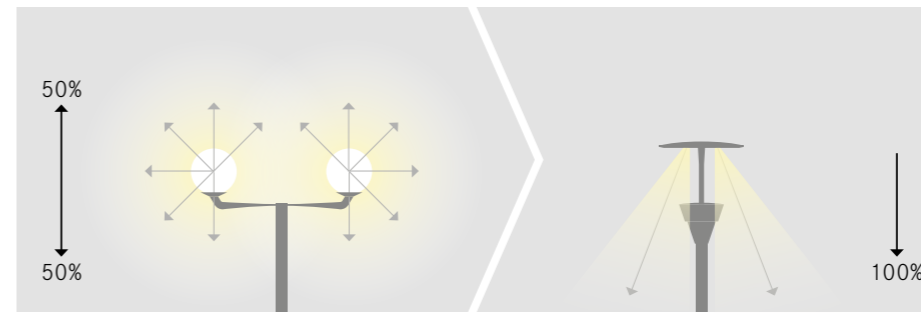
The Kalos fastening system can be installed in the UP position (post top or arm in supported position) or DOWN (suspended from arms or wire).

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.



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)

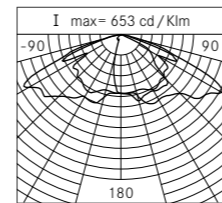
Energy Saving	75%
Light Pollution	0%
Life time	>50.000 h
On-off	immediately
Warranty	5 years

Reduzierte Umweltbelastung

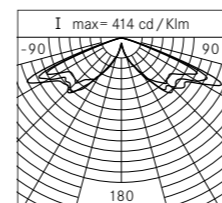
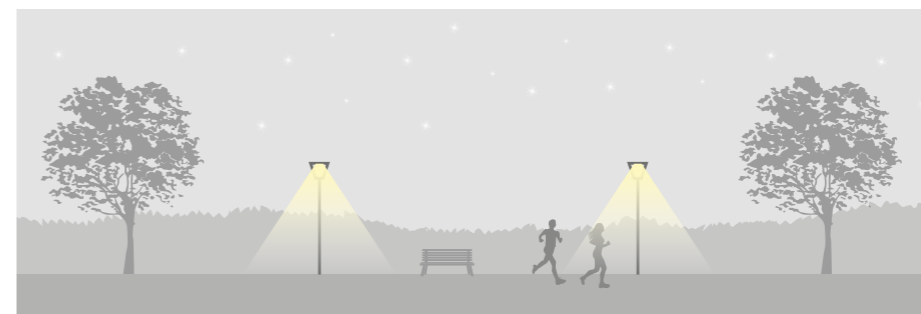
Die Auswechslung alter Glühbirnen-Lichtpunkte mit den Produkten der Kalos-Produktreihe ermöglicht eine hohe Energieeinsparung und eine Verringerung der Lichtverschmutzung. (Cut-Off)



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%		

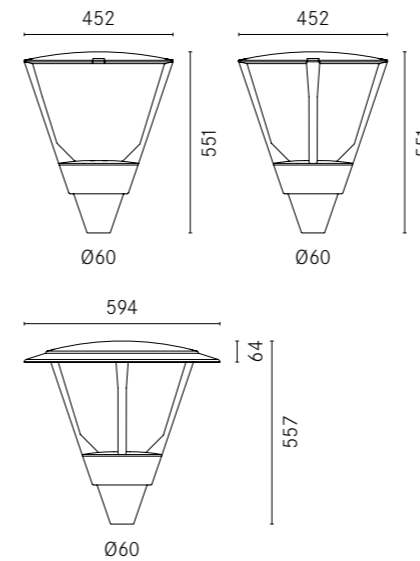


	H	H1	E Medio	U0	W	
80W QE	4	4.6	6	0.28	88	
125W QE	4	4.6	10	0.28	138	
100W SE	4	4.6	17	0.28	115	
KALOS 12 350 LED ROT	4	4.6	7,5	0.34	14.5	
KALOS 12 700 LED ROT	4	4.6	11	0.34	28	
Energy saving	12LED 14.5W		vs	QE 88W 88W		-83%
Energy saving	12LED 28W		vs	QE 125W 138W		-66%

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

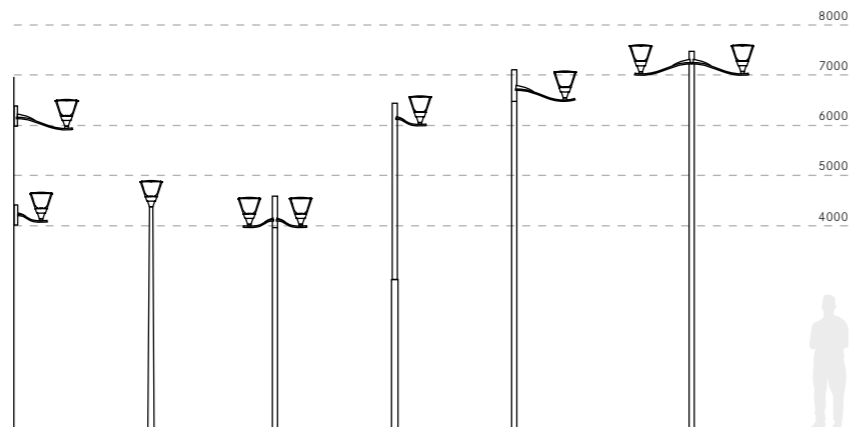


Max weight: 8 kg
 Max exposed surface: 0.16m²
 Lateral exposed surface: 0.068m²

Kalos UP 2 arms 01KA4		Kalos UP 4 arms 01KA5			
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	2200* 1	*Only 48W and 72W Optics LA-01 / ME-01 / LT-6		
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					

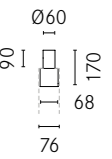
Esempio *Example* Beispiel

01KA4	B2	0	0	35	C	HM3
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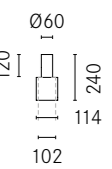


Accessori *Accessories* Zubehör

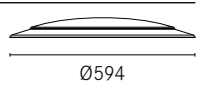
01AY904C0 - Sablé100
 Riduzione Ø60-68mm per pali Ø76mm
Reduction Ø60-68mm for poles Ø76mm
 Reduktion Ø60-68mm für Ø76mm Masten



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)

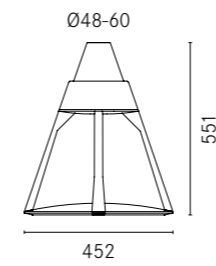


Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

220 240V	50 60Hz	CL II	IP66	IK09
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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
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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	3000
0	9

Optics

ME-01 32	LA-01 31	LT-06 37
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Colors

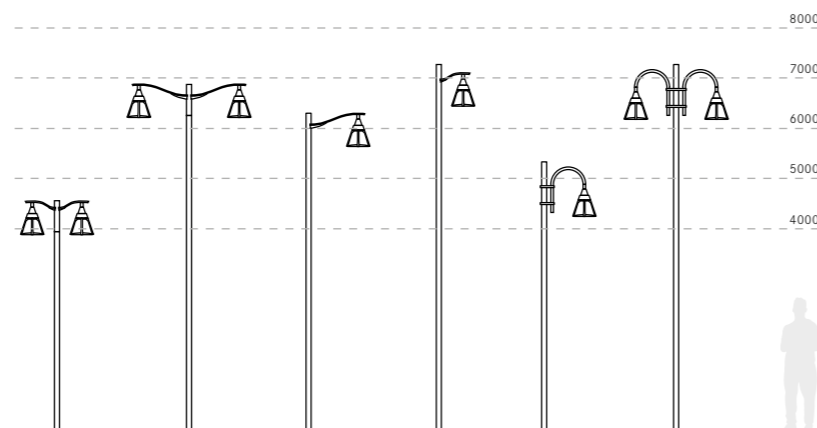
Sablé100 C

Smart Lighting

Preset virtual midnight HM3

Esempio Example Beispiel

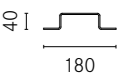
01KA6	B2	0	0	32	C	HM3
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Accessori Accessories Zubehör

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

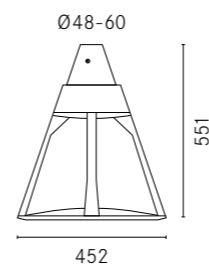


Verifica compatibilità con pali e bracci. Check compatibility with poles and arms. Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 316

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



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

7845lm 48W C4	15435lm 95W E8
-------------------------	--------------------------

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

7480lm 48W C4	14720lm 95W E8
-------------------------	--------------------------

mA		
700	525	350
0		

K	
4000	3000
0	9

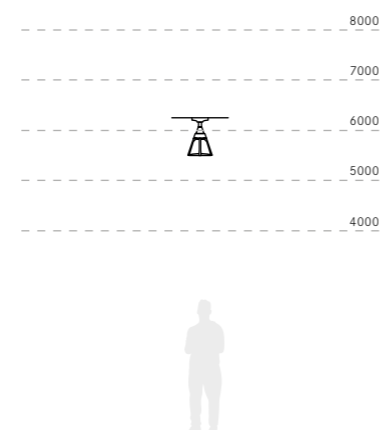
Optics	
SO-01	
39	

Colors	
Sablé100	
C	

Smart Lighting	
Preset virtual midnight	
HM3	

Esempio Example Beispiel

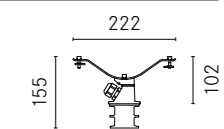
01KA6	C4	0	0	39	C	HM3
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Accessori Accessories Zubehör

01KA925C0 - Sablé100

Kit sospensione fune tesata Ø6-12mm
 Suspension kit for string Ø6-12mm
 Aufhängungskit auf Drahtseil Ø6-12mm



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



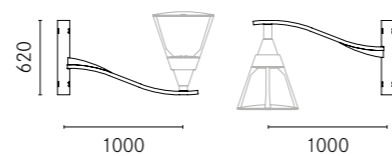
Accessori Accessories Zubehör

01KA902C0 - Sablé 100

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

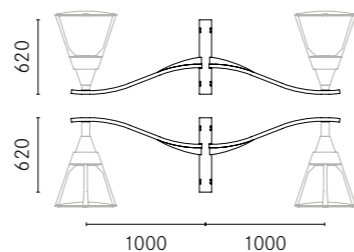
B35 Ausleger L 1000mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA903C0 - Sablé 100**

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

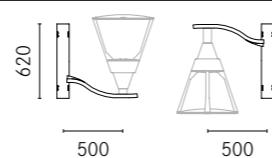
B36 Doppelausleger L 1000mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA904C0 - Sablé 100**

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

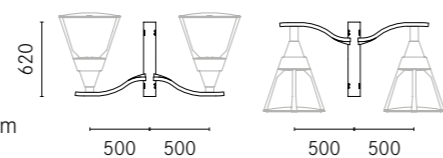
B37 Ausleger L 500mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA905C0 - Sablé 100**

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

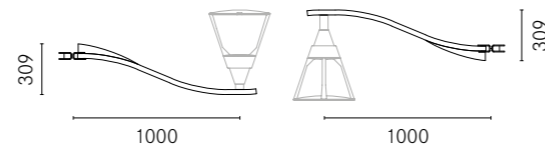
B38 Doppelausleger L 500mm für Mast Ø102mm mit Adapter Ø60mm am Mastkopf H 120mm

**01KA906C0 - Sablé 100**

B39 Braccio L 1000mm con anello per pali Ø102mm

B39 Arm L 1000mm with ring for pole Ø102mm

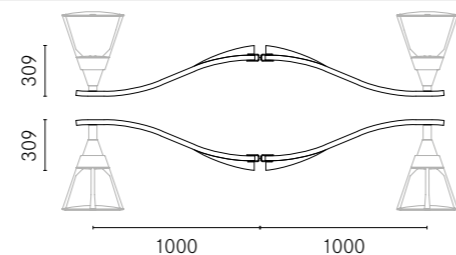
B39 Ausleger L 1000mm mit bring für Mast Ø102mm

**01KA907C0 - Sablé 100**

B44 Braccio doppio L 1000mm con anello per pali Ø102mm

B44 Double arm L 1000mm with ring for pole Ø102mm

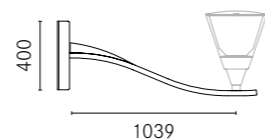
B44 Doppelausleger L 1000mm mit bring für Mast Ø102mm

**01KA910C0 - Sablé 100**

B39-P Braccio per parete L 1000mm

B39-P Wall bracket L 1000mm

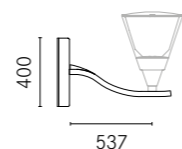
B39-P Wandausleger L 1000mm

**01KA911C0 - Sablé 100**

B45-P Braccio per parete L 500mm

B45-P Wall bracket L 500mm

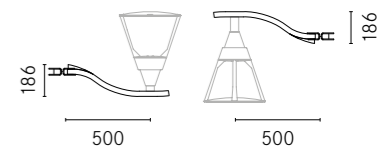
B45-P Wandausleger L 500mm

**01KA908C0 - Sablé 100**

B45 Braccio L 500mm con anello per pali Ø102mm

B45 Arm L 500mm with ring for pole Ø102mm

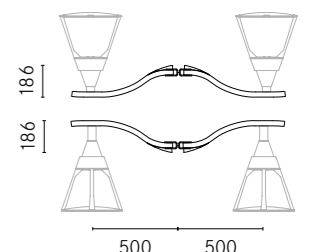
B45 Ausleger L 500mm mit bring für Mast Ø102mm

**01KA909C0 - Sablé 100**

B46 Braccio doppio L 500mm con anello per pali Ø102mm

B46 Double arm L 500mm with ring for pole Ø102mm

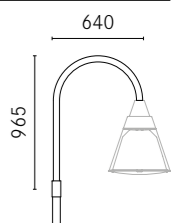
B46 Doppelausleger L 500mm mit bring für Mast Ø102mm

**01AK932C0 - Sablé 100**

B12 Braccio pastorale L 640mm Ø60mm per palo TP Ø60mm

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

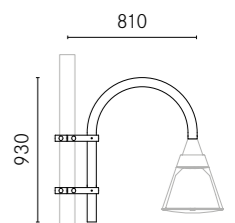
B12 Ausleger gebogen L 640mm Ø60mm für Mast Mastkopf Ø60mm

**01AK935C0 - Sablé 100**

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 - Sablé 100**

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

