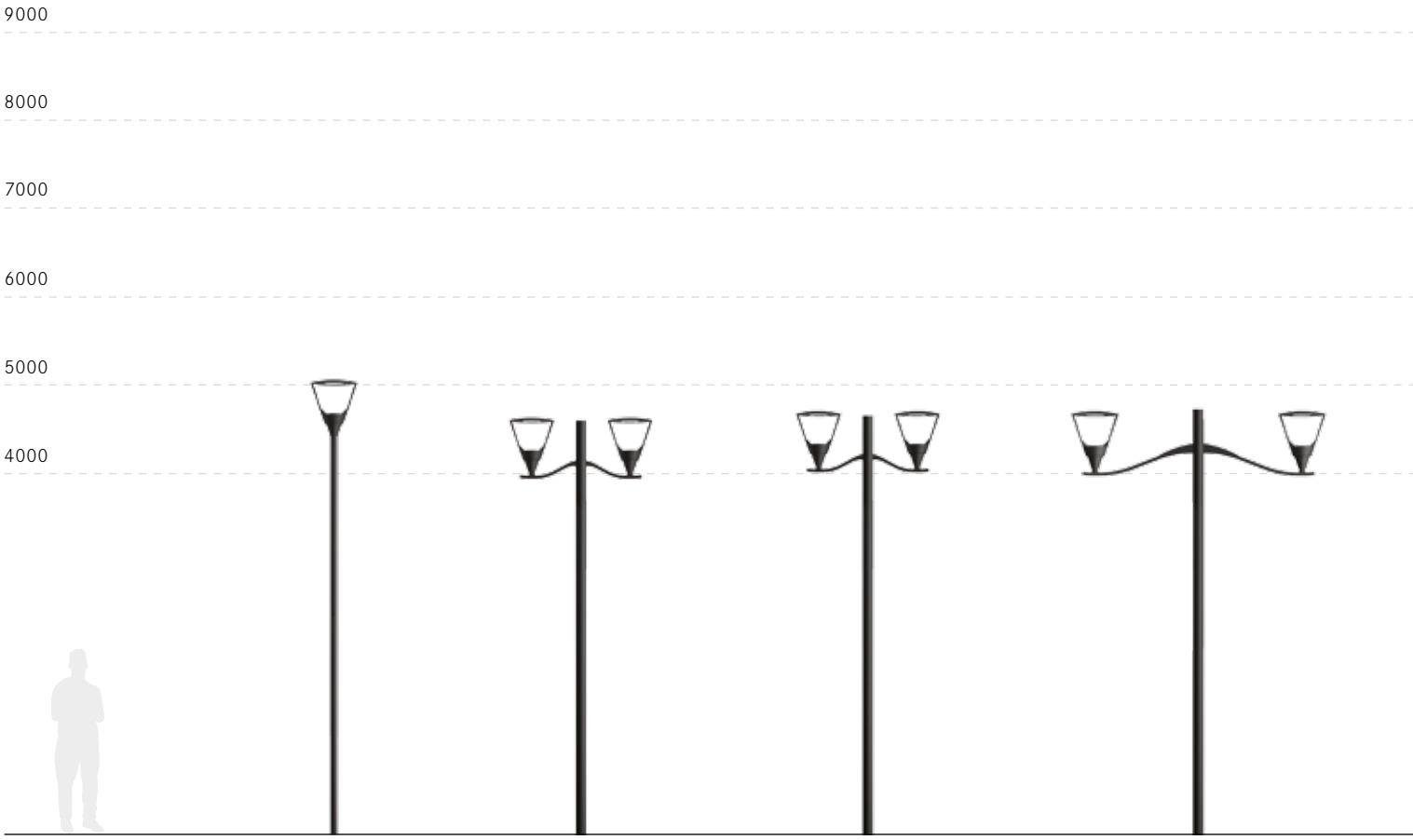
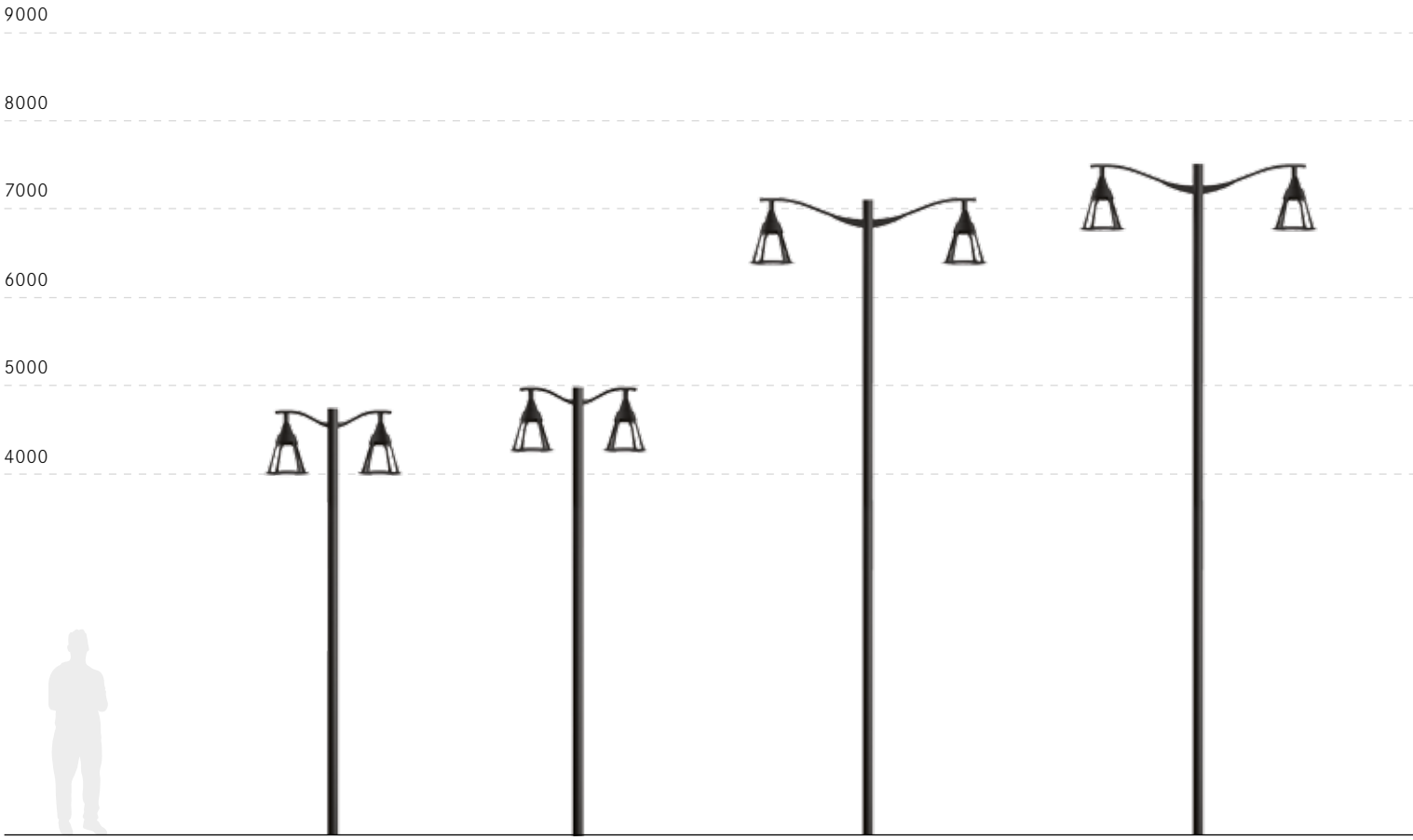
Kalos

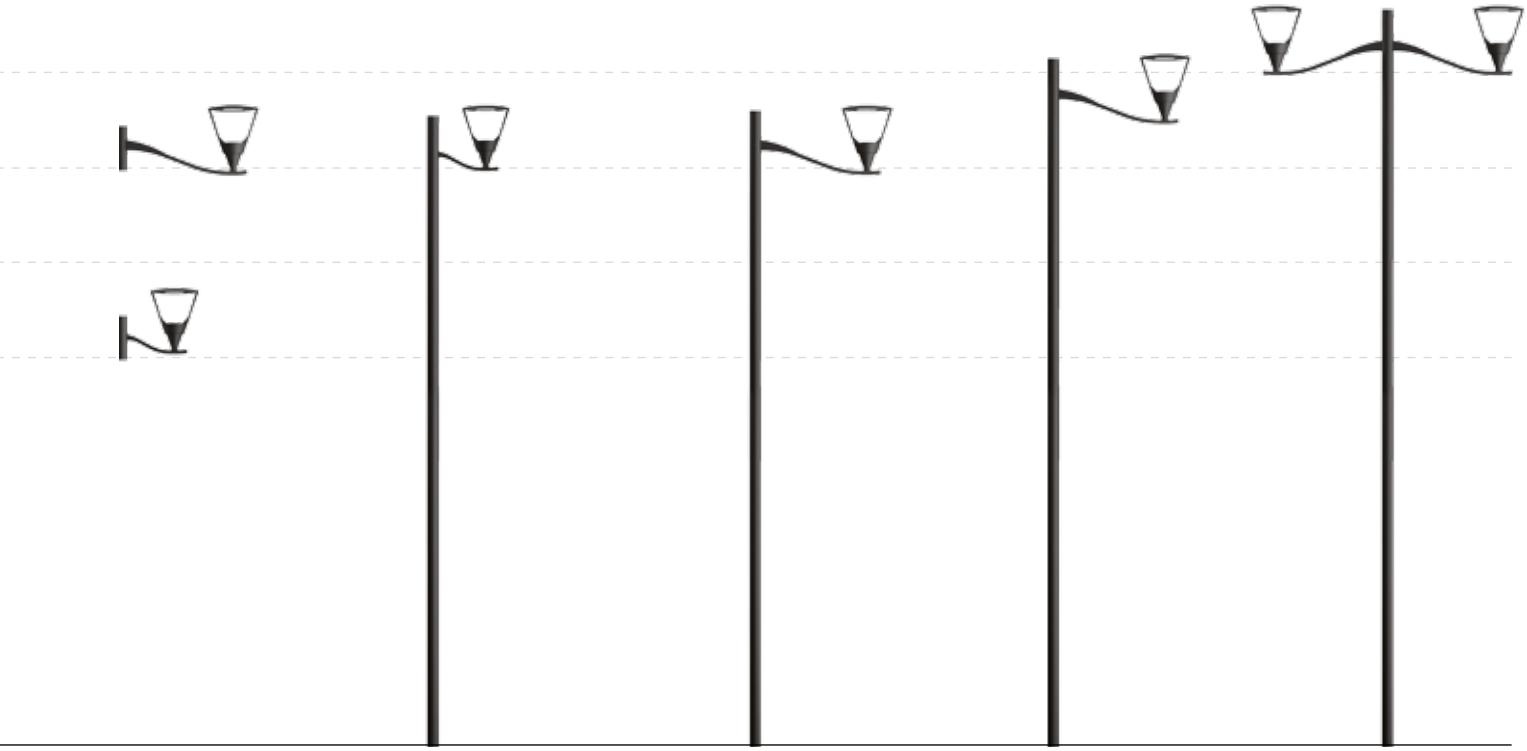
Fivep

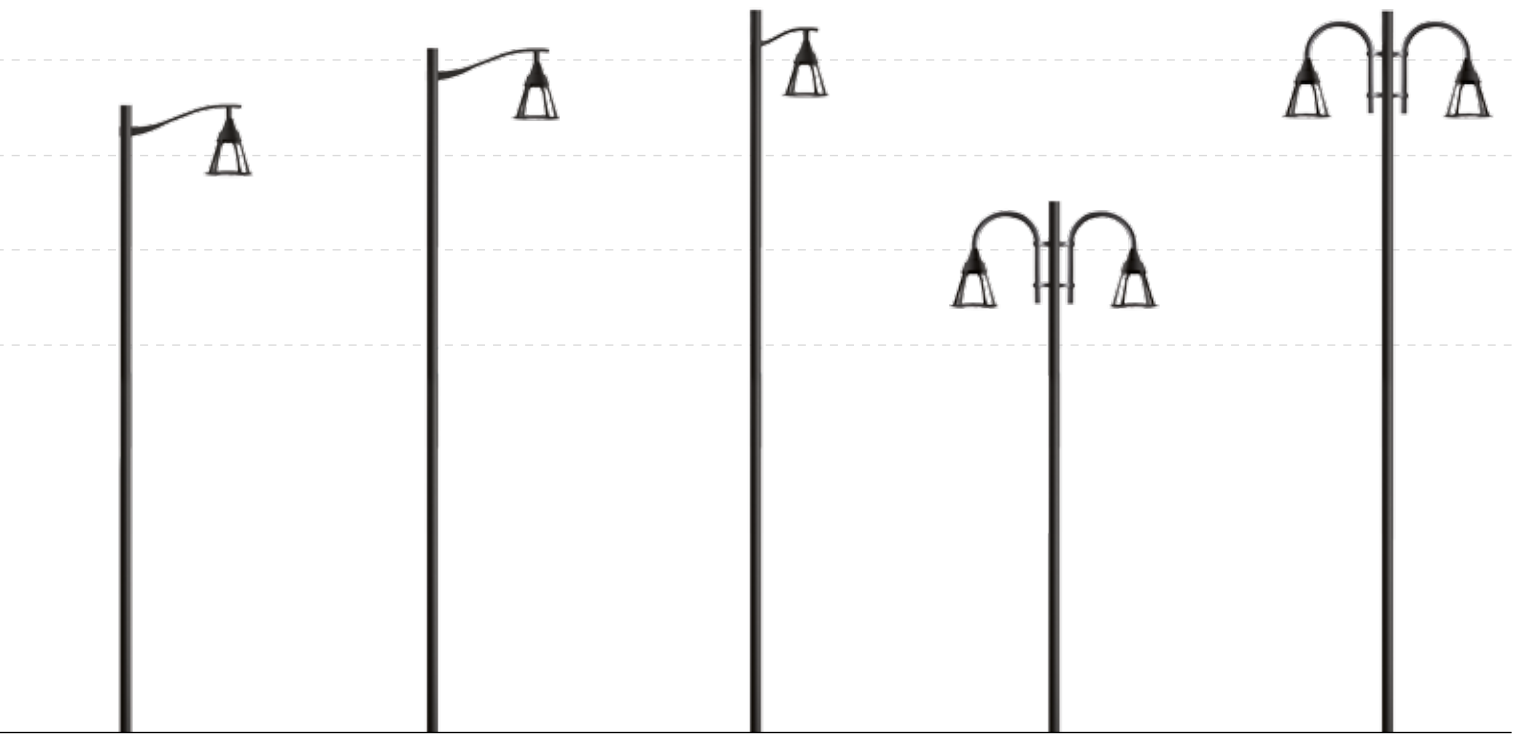


Kalos





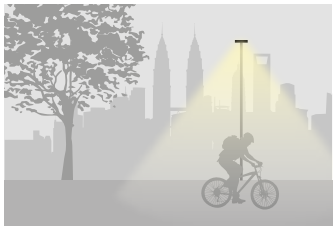




Kalos

220-240V **50-60Hz**	Tensione di alimentazione *Nominal voltage* Nennspannung
CL I on request **CL II**	Classe di isolamento elettrico *Electrical insulation class* Elektrische Isolierklasse
IP66	Grado di isolamento *Insulation protection degree* Isolationsschutzgrad
IK09	Protezione contro gli urti *Protection against impact* Stoßfestigkeit
>0.90	Fattore di potenza *Power factor* Leistungsfaktor
10kV	Protezioni da sovratensioni di modo comune *Common mode overvoltage protection* Schutz vor Gleichtakt-Überspannungen
10kV	Protezioni da sovratensioni di modo differenziale *Differential mode overvoltage protection* Schutz vor Gegentakt-Überspannungen
-30°C **+50°C**	Temperatura ambiente *Ambient temperature* Umgebungstemperatur
Sablé100 Noir	Colori *Colours* Farben
Included	Alimentazione elettronica *Electronic power supply* Elektronische Stromversorgung
HM3 **CLO** **1-10V** **Wireless on request** **PLC on request** **DALI on request** **Motion detectors / brightnes on request**	Illuminazione intelligente *Smart Lighting* Intelligente Beleuchtung











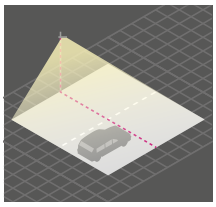


Installazione: palo, braccio, parete
Installation: *pole, arm, wall*
Installation: Mast, arm, Wand

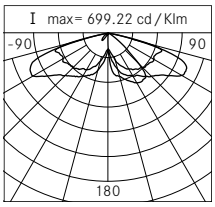
2120-15435lm	Flusso nominale *Nominal flux* Nennfluss
ULOR: 0% **DLOR: 100%**	Cut-Off *Cut-Off* Cut-Off
4000K **3000K** **2200K**	Temperatura colore *Colour temperature* Farbtemperatur

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

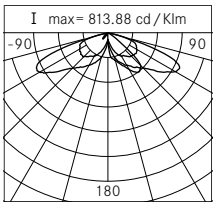
Ottiche asimmetriche stradali
Street asymmetrical optics Optik asymmetrisch straßenleuchte



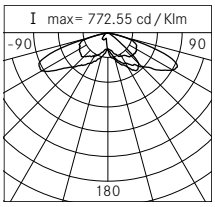
ST-01 (L/H= 0.75)
UP pole-side system



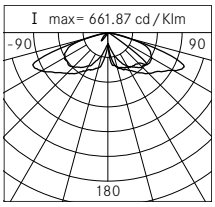
ME-01 (L/H= 1)
UP pole-side system



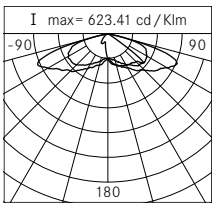
ME-01 (L/H= 1)
DOWN pole-side system



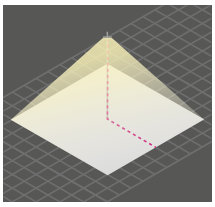
LA-01 (L/H= 1.25)
UP pole-side system



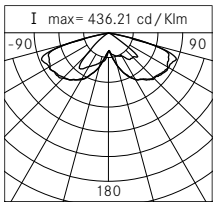
LA-01 (L/H= 1.25)
DOWN pole-side system



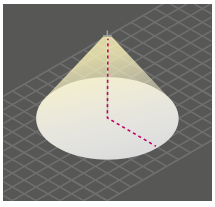
Ottiche Front & Back *Front & Back optics* Straßenoptik Front & Back Optik



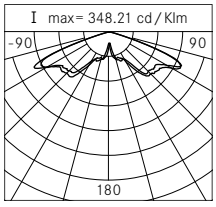
ST-01 (L/H= 0.75) +
LA-01 (L/H= 1.25)
UP pole-side system



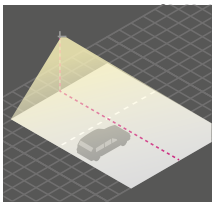
Ottiche rotosimmetriche Roto*symmetrical optics* Optik rotosymmetrisch



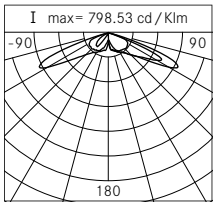
RS-01 (L/H=)
UP pole-side system



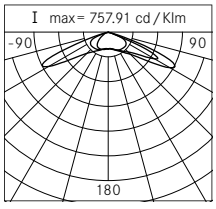
Ottiche asimmetriche Asymm*etrical optics* Optik asymmetrisch



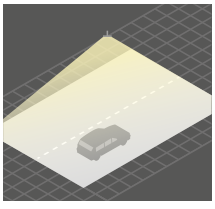
LT-06 (L/H= 2)
UP pole-side system



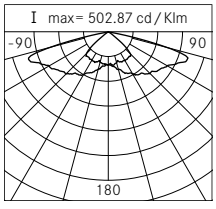
LT-06 (L/H= 2)
DOWN pole-side system



Ottiche simmetriche stradali
Street symmetrical optics Optik symmetrisch straßenleuchte



SO-01 (L/H=)
string suspension



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

Approfondimento sistemi ottici, *Deepening optical systems, Verti*efung optischen Systeme. P. 29*8*
Approfondimento sistemi di smart lighting, Deepen*ing smart lighting systems, Vertiefung intel*ligenten Beleuchtungssysteme. P. 300

Kalos

Sistema ottico multilayers
Multilayer optical system
Optisches System “Multilayer”

Cut-Off
Cut-Off
Cut-Off

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

CRI≥80 SMCD=4
CRI≥80 SMCD=4
CRI≥80 SMCD=4

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

Illuminazione intelligente
Smart Lighting
Intelligente Beleuchtung

Maggiore efficienza energetica
Greater energy efficiency
Höhere Energieeffizienz

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

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

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

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

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

Dimensioni compatte
Dimensions compact
Kompatken Abmessungen

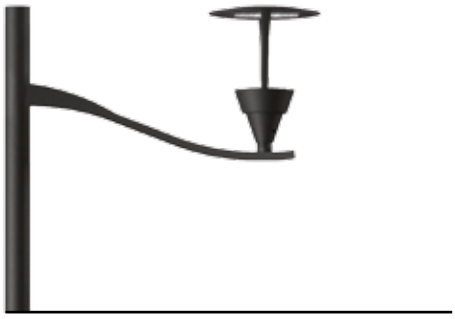
Trasporti ottimizzati
Shipping optimization
Transport optimiert

Sostituibilità gruppo ottico
Optical unit substitutability
Ersetzbarkeit der optischen Einheit

Sostituibilità gruppo alimentazione
Power supply unit substitutability
Ersetzbarkeit der Versorgungseinheit

Riduzione accumulo sporco
Reduction in the buildup of dirt
Reduzierte Schmutzansammlung

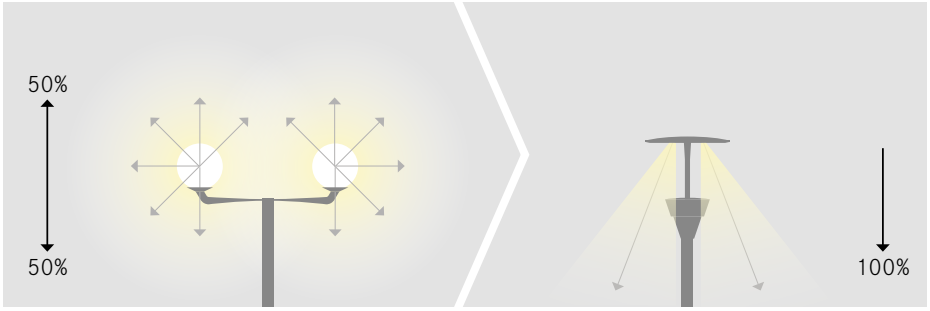




Installazione UP&DOWN
Il sistema di fissaggio Kalos può essere installato in configurazione UP (testa palo o bracci in configurazione portata) o DOWN (sospensione su bracci o su fune tesata).
La versione UP è disponibile sia con due che con quattro bracci, quella DOWN è standard con quattro bracci. La 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.

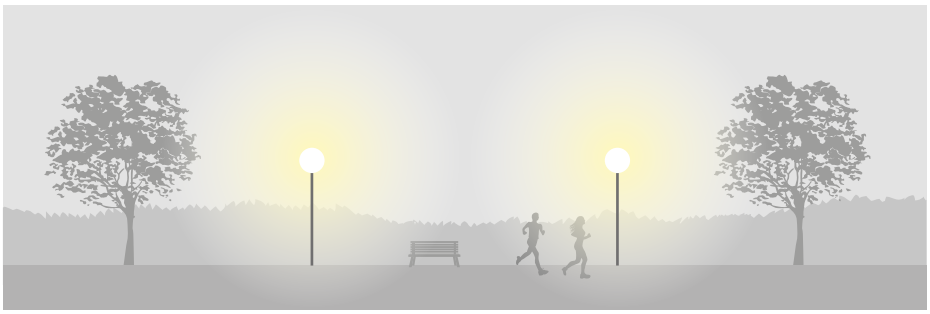


Energy Saving	**75%**
Light Pollution	**0%**
Life time	**>50.000 h**
On-off	**immediately**
Warranty	**5 years**

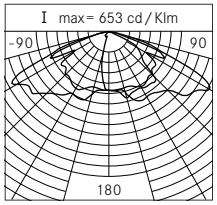
Impatto ambientale ridotto
La sostituzione di vecchi punti luce a lampada con i prodotti della linea Kalos consente un elevato risparmio energetico e una riduzione dell'inquinamento luminoso. (Cut-Off)

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



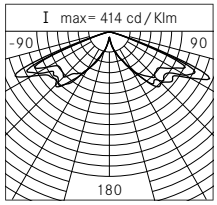
H: Altezza palo *Pole height* Masthöhe
H1: Altezza fonte luce *Height of the lighting source* Lichtpunkthöhe
D: Interdistanza *Interdistance* Abstand
I / H: Rapporto interdistanza / altezza *Interdistance / height ratio* Verhältnis Abstand / Höhe
La: Larghezza strada *Street width* Straßenbreite
Emed: 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 **10 LED 20W** **vs** **QE 125W 138W** **-83%**





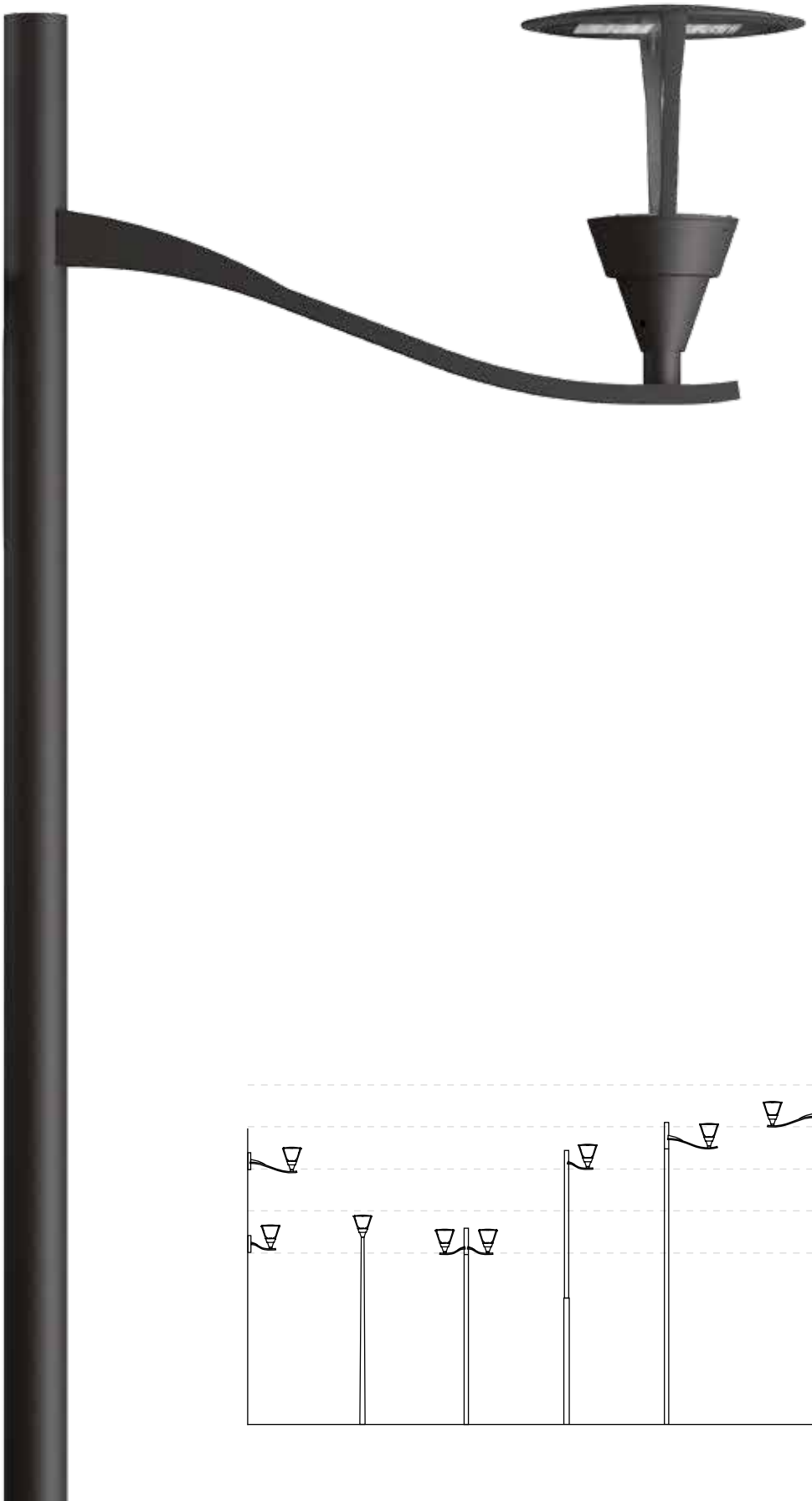
	H	H1	E Medio	U0	W
80W QE	4	4.6	6	0.28	88
125W QE	4	4.6	10	0.28	138
100W SE	4	4.6	17	0.28	115
KALOS 12 350 LED ROT	4	4.6	7,5	0.34	14.5
KALOS 12 700 LED ROT	4	4.6	11	0.34	28

Energy saving **12 LED 14.5W** **vs** **QE 88W 88W** **-83%**
Energy saving **12 LED 28W** **vs** **QE 125W 138W** **-66%**

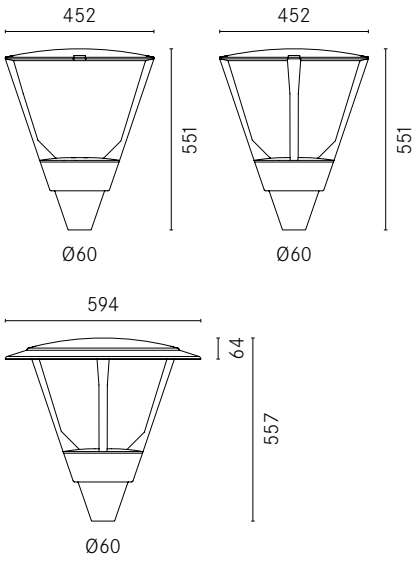



TORRE DANI-ONE
OMBONIERE

220 240V | 50 60Hz | CL II | IP66 | IK09



Kalos UP brackets and poles



Max weight: 8kg

Max exposed surface: 0.16m²

Lateral exposed surface: 0.068m²

Kalos UP 2 arms	Kalos UP 4 arms
01KA4	**01KA5**

Led (nominal flux)

3965lm 24W	7845lm 48W	11660lm 72W
B2	**C4**	**D6**

mA

700 525 350
0

K

4000	3000	2200*
0	**9**	**1**

*Only R2 and R3 Optics LA-01 / ME-01 / LT-6

Optics

ST-01	ME-01	LA-01	RS-01	LT-06
30	**32**	**31**	**35**	**37**

ST-01 + LA-01**	ST-01 + LA-01***
76	**77**

**3965lm + 3965lm

***7845lm + 7845lm

Colors

Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio *Example* Beispiel

01KA4	**B2**	**0**	**0**	**35**	**C**	**HM3**

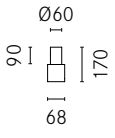
Accessori *Accessories* Zubehör

01AY904C0 **Sablé100**

Riduzione per pali Ø60-76mm

Reduction for poles Ø60-76mm

Reduktion für Ø60-76mm Masten

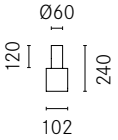


01SC913C0 **Sablé100**

Riduzione per pali Ø60-102mm

Riduzione per pali Ø60-102mm

Reduktion für Ø60-102mm Masten

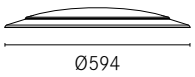


01KA901C0 **Sablé100**

Cappello (solo per versione 4 chele)

Decorative upper cover

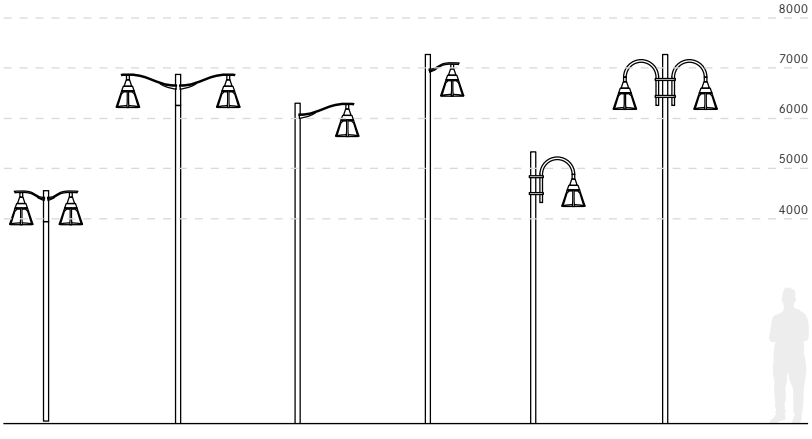
Dekorative Abdeckung



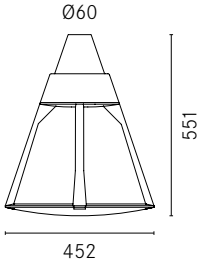
Verifica compatibilità con pali e bracci. *Check compatibility with poles and arms.* Überprüfen Sie die Kompatibilität mit Masten und Armen. P. 308

220 240V | 50 60Hz | CL II | IP66 | IK09





Kalos DOWN brackets and poles



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

Kalos DOWN 4 arms
01KA6

Led (nominal flux)

3965lm 24W	7845lm 48W	11660lm 72W
B2	**C4**	**D6**

mA

700 525 350
0

K

4000	3000	2200
0	**9**	**1**

Optics

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

Colors

Sablé100
C

Smart Lighting

Preset virtual midnight
HM3

Esempio *Example* Beispiel

01KA6	**B2**	**0**	**0**	**32**	**C**	**HM3**

Accessori *Accessories* Zubehör

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. 308

Kalos DOWN String suspension

220
240V

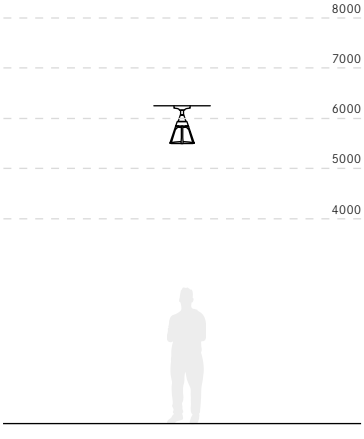
50
60Hz

CL II

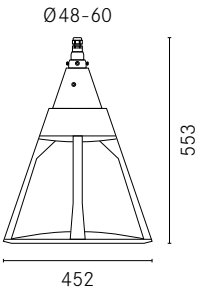
IP66

IK09





Kalos DOWN string suspension



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

Kalos
01KA6

Led (nominal flux)

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

mA

700 525 350
0

K

4000	3000
0	**9**

Optics

SO-01
39

Colors

Sablé100
C

Smart Lighting

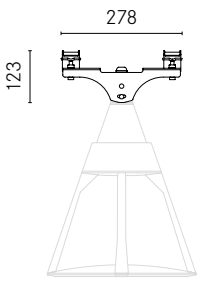
Preset virtual midnight
HM3

Esempio *Example* Beispiel

01KA6	**C4**	**0**	**0**	**39**	**C**	**HM3**

Accessori *Accessories* Zubehör

01KA900J0 Sablé100
Kit sospensione fune tesata
Suspension kit for string
Aufhängungskit auf Drahtseil



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



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