

(IT)

New performances:

- nuovi LED con maggior flusso ed efficienza

Apparecchio a LED adatto per l'installazione a parete, a terra con picchetto e su palo. Ideale per l'illuminazione di facciate, insegne, spazi commerciali, aree verdi per evidenziare elementi naturali o architettonici e per l'illuminazione di piste ciclo-pedonali, viali e parcheggi .
Sorgenti: 10, 16 e 20 POWER LED con temperatura colore cool e warm-white. CRI (indice di resa cromatica): Ra ≥ 70. Ottica realizzata in polimero trasparente. Disponibili tre varianti: asimmetrica, rotosimmetrica concentrante e stradale. Corpo e staffa in pressofusione di alluminio. Introdotto un sistema di protezione dalle sovratensioni di modo differenziale fino a 10 kV. Colori: sablé 100 Noir, grigio RAL9006 e bianco RAL9003. Elementi accessori: giunto e prolunga per fissaggio a parete, picchetto per l'installazione a terra e giunto di fissaggio per picchetto, kit di fissaggio per pali, sistemi braccio per l'installazione su palo e sistemi palo conici e conici curvi.

(UK)

New performances:

- for the new LED with higher lumen output and efficiency

*Levante is a LED-floodlight for wall fastening, for installation at ground with a proper stake and on poles.
Suitable for the lighting of façades, paths, signs, commercial areas, green areas in order to enhance natural or architectural elements and for lighting cycle or pedestrian routes, boulevards and parking places.
Light sources: 10, 16 and 20 POWER LED with cool and warm white colour temperature. CRI (colour rendering index): Ra ≥ 70.
The front screen which includes the lenses is realised in transparent polymer .
Available three optics: asymmetrical, rotosymmetric narrow beam and street optics. Die-cast aluminium body and bracket. Protection against differential mode overvoltages up to 10 kV.
Colours: dark grey Sablé 100 Noir, grey RAL9006 and white RAL9003.
Accessories: joint and extension for the wall fastening, stake for ground fastening and joint for the connection of the floodlight, fastening kit on poles, brackets for the installation on poles and specific conical and conical curved pole system.*

(DE)

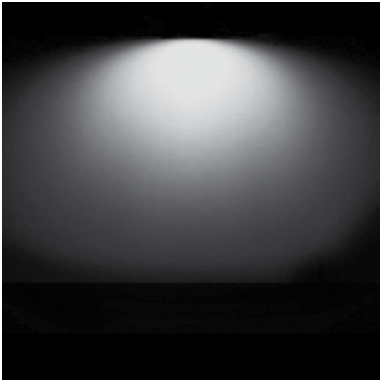
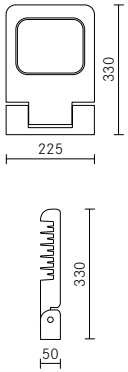
New performances:

- für die neuen LEDs mit höheren Lumenpaket und Effizienz

LEVANTE ist ein LED-Strahler, der für Wand-, Mast- oder Bodeninstallation geeignet ist. Es ist besonders geeignet für die Beleuchtung von Fassaden, Geschäftsgebieten, Werbeschilder, Grünzonen, Hervorhebung von architektonische Elemente, Parkplätze, Fahrrad- und Gehwege, Siedlungsstraßen. Lichtquellen: 10, 16 und 20 POWER LEDs, mit warm und kalt weiß Farbetemperatur. CRI (Farbwiedergabeindex): Ra ≥ 70. Optik aus transparentem Polymer. Erhältlich in 3 verschiedenen Varianten: asymmetrische Optik, engstrahlende rotosymmetrische Optik und Straßenoptik. Gehäuse und Bügel der Leuchte aus Aluminiumdruckguss. Schutz gegen gegenüber verlaufenden Überspannungen bis 10kV. Farben: Anthrazit Sablé100Noir, grau RAL9006 und weiß RAL9003. Zubehörteile: Verbindungsstück und Ausleger für Wandbefestigung; Verbindungsstück und Pflock für Bodeninstallation; Verbindungsstück, Mastschellen und Ausleger für Mastinstallation; besonders entwickelte Mastsysteme (konische Masten und konische gebogene Maste) ergänzen das Angebot von Levante.

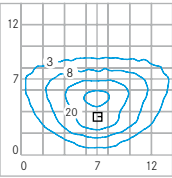
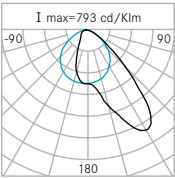
LEVANTE SMALL

Design by Silvio De Ponte - R&S Cariboni Lite

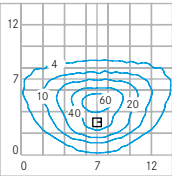
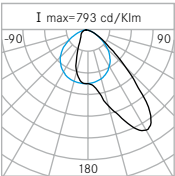


Ottica asimmetrica
Asymmetric Optics
Asymmetrische Optik

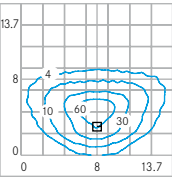
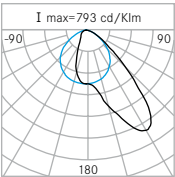
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10 LED	700 mA	21W	2680 lm	4000 K	



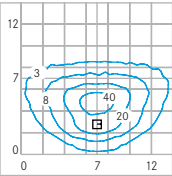
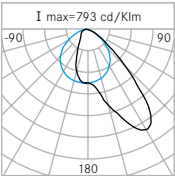
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16 LED	700 mA	34W	4285 lm	4000 K	



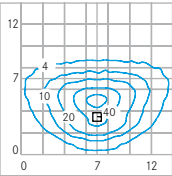
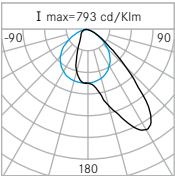
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20 LED	700 mA	42W	5360 lm	4000 K	



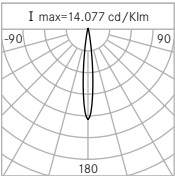
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16 LED	700 mA	34W	3760 lm	3000 K	



06LV3C0097_					
20 LED	700 mA	42W	4700 lm	3000 K	

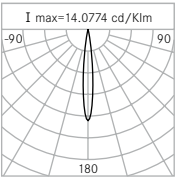


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10 LED	700 mA	21W	2680 lm	4000 K	



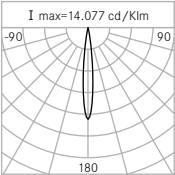
H (m)	Ø (m)	lux
1	0,21	17487
2	0,42	4372
3	0,64	1743
4	0,84	1093
5	1,05	699

06LV3C0004_					
20 LED	700 mA	42W	5360 lm	4000 K	



H (m)	Ø (m)	lux
1	0,21	34113
2	0,42	8528
3	0,64	3790
4	0,84	2132
5	1,05	1365

06LV3C0094_					
20 LED	700 mA	42W	4700 lm	3000 K	



H (m)	Ø (m)	lux
1	0,21	24751
2	0,42	6188
3	0,64	2750
4	0,84	1547
5	1,05	990

Ottica stradale codici pag.103 *Street Optics codes page 103* Straßenoptik Codes Seite 103



Per definizione colore nel codice sostituire “_” con
In order to define the colour of the fitting, replace “_” in the codes with
Um die Farbe der Leuchte zu bestimmen, in der Kodenummer ersetzen Sie “_” mit
A = grigio RAL 9006 *grey RAL 9006* grau RAL 9006
C = sablé 100 Noir *dark grey Sablé 100 Noir* Anthrazit Sablé 100 Noir
D = bianco RAL 9003 *white RAL 9003* weiß RAL 9003

Accessori *Accessories* Zubehör



L9 Giunto per palo 1xØ60
L9 Die cast joint for post-top installation 1xØ60mm
L9 Druckguss Mastverbindungsstück für 1xØ60mm Mast

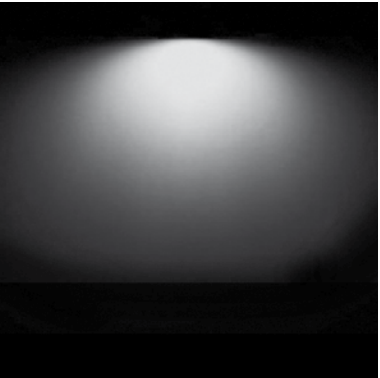
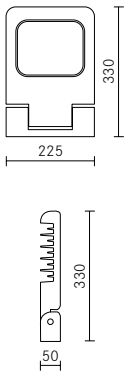
06AK952_0



B1 P Braccio parete 1xØ60
B1 P Wall Bracket 1xØ60
B1 P Wandausleger 1xØ60

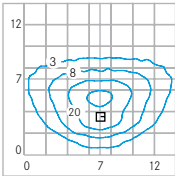
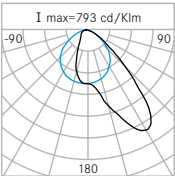
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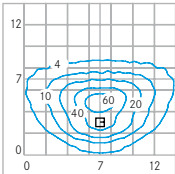
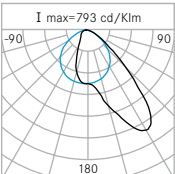


Ottica asimmetrica
Asymmetric Optics
Asymmetrische Optik

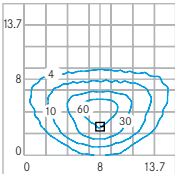
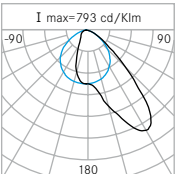
06LV3B0007_					
10 LED	700 mA	21W	2680 lm	4000 K	



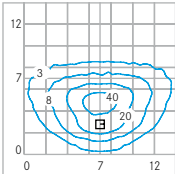
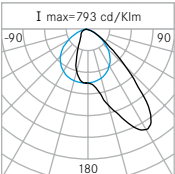
06LV3B6007_					
16 LED	700 mA	34W	4285 lm	4000 K	



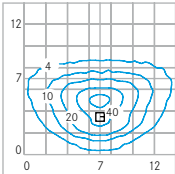
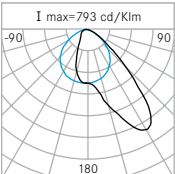
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20 LED	700 mA	42W	5360 lm	4000 K	



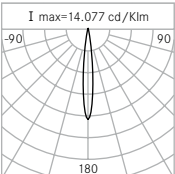
06LV3B6097_					
16 LED	700 mA	34W	3760 lm	3000 K	



06LV3C0097_					
20 LED	700 mA	42W	4700 lm	3000 K	

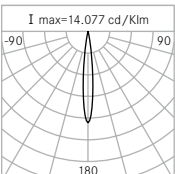


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10 LED	700 mA	21W	2680 lm	4000 K	



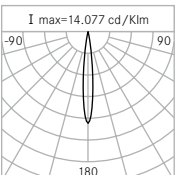
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Accessori Accessories Zubehör



L9 Giunto per palo 1xØ60
L9 Die cast joint for post-top installation 1xØ60mm
L9 Druckguss Mastverbindungsstück für 1xØ60mm Mast
06AK952_0



I1 Picchetto 1xØ60 Sablé 100 Noir
I1 Stake for ground installation 1xØ60mm, Sablé 100 Noir
I1 Pflock für Bodeninstallation 1xØ60, Sablé 100 Noir
06AK953C0

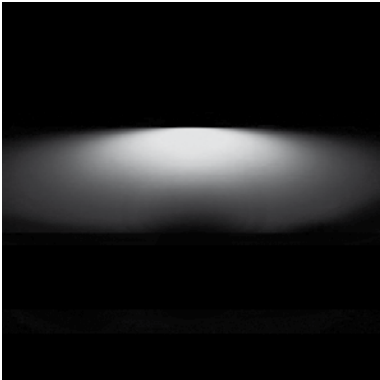
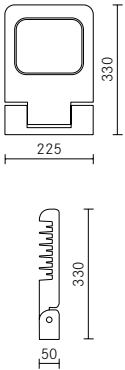


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C = sablé 100 Noir *dark grey Sablé 100 Noir* Anthrazit Sablé 100 Noir
D = bianco RAL 9003 *white RAL 9003* weiß RAL 9003



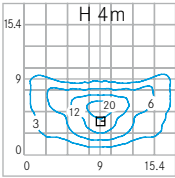
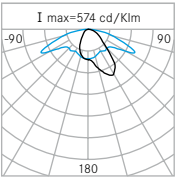
LEVANTE SMALL

Cl. II IP66230V 50HzCEFmax 4,5 kg.CUT OFFLEVANTE SMALL

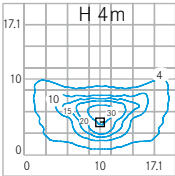
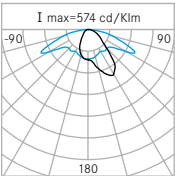


Ottica stradale
Street Optics
Straßenoptik

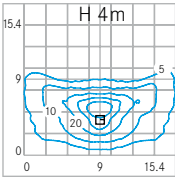
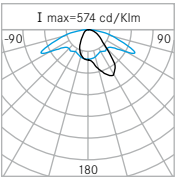
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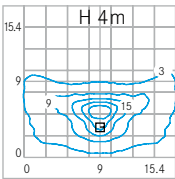
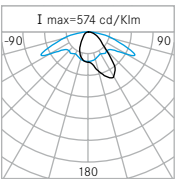
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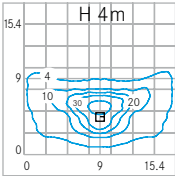
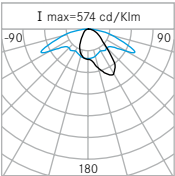
06LV3C0008_HM3					
20 LED	700 mA	42W	5035 lm	4000 K	



06LV3B6098_HM3					
16 LED	700 mA	34W	3535 lm	3000 K	



06LV3C0098_HM3					
20 LED	700 mA	42W	4420 lm	3000 K	



Accessori Accessories Zubehör



- L9 Giunto per palo 1xØ60
- L9 Die cast joint for post-top installation 1xØ60mm
- L9 Druckguss Mastverbindungsstück für 1xØ60mm Mast

06AK952_0

Il prodotto è fornito completo di sistema di programmazione del flusso luminoso (pag. 108_1a)
The fitting is provided with the system for the power reduction of the luminous flux (page 108_1a)
Die leuchte wird mit einen System für die Lichtsteuerung mit Programmierung des Lichtfluxes geliefert (Seite 108_1a)

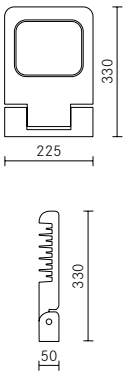
06PA0001_

Palo Conico Curvo Singolo+Tronchetto Ø60 H=4 m
Conical curved pole with single arm Ø60, H=4,0m
Gebogener Konischer Mast, mit Einzelarm Ø60, H=4m

06PA0002_

Palo Conico Curvo Doppio +Tronchetti Ø60 H=4 m
Conical curved pole with double arm Ø60, H=4 m
Gebogener Konischer Mast, mit Doppelarm Ø60, H=4 m

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A = grigio RAL 9006 grey RAL 9006 grau RAL 9006
C = sablé 100 Noir dark grey Sablé 100 Noir Anthrazit Sablé 100 Noir



Per definizione colore nel codice sostituire “_” con
In order to define the colour of the fitting, replace “_” in the codes with
Um die Farbe der Leuchte zu bestimmen, in der Kodenummer ersetzen Sie “_” mit
A = grigio RAL 9006 *grey RAL 9006* grau RAL 9006
C = sablé 100 Noir *dark grey Sablé 100 Noir* Anthrazit Sablé 100 Noir

Accessori *Accessories* Zubehör



L9 Giunto per palo 1xØ60
L9 Die cast joint for post-top installation 1xØ60mm
L9 Druckguss Mastverbindungstück für 1xØ60mm Mast

06AK952_0



L15 Kit attacco palo Ø60-76
L15 Kit for post-top installation Ø60-76mm
L15 Kit für Mastaufsatzinstallation Ø60-76 mast

06AK900_0



LEVANTE SMALL

Cl. II IP66

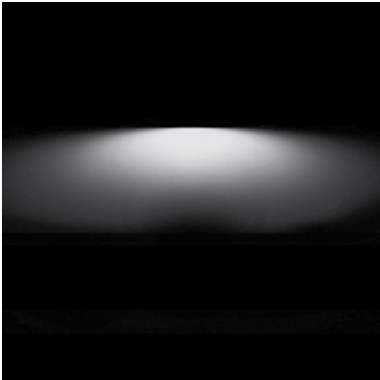
230V 50Hz



max 4,5 kg.



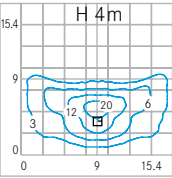
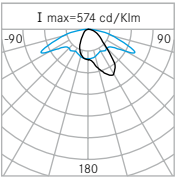
LEVANTE SMALL



Ottica stradale
Street Optics
Straßenoptik

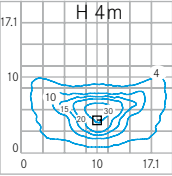
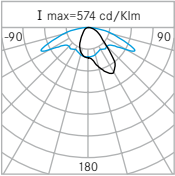
06LV3B0008_HM3

10 LED 700 mA 21W 2520 lm 4000 K



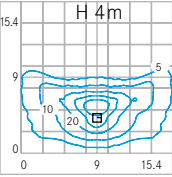
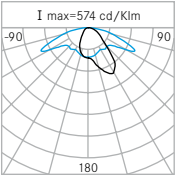
06LV3B6008_HM3

16 LED 700 mA 34W 4030 lm 4000 K



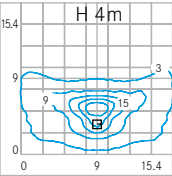
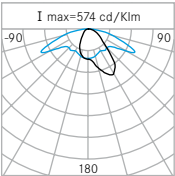
06LV3C0008_HM3

20 LED 700 mA 42W 5035 lm 4000 K



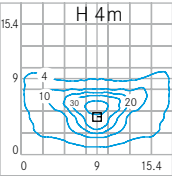
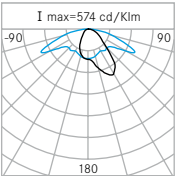
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16 LED 700 mA 34W 3535 lm 3000 K



06LV3C0098_HM3

20 LED 700 mA 42W 4420 lm 3000 K



Il prodotto è fornito completo di sistema di programmazione del flusso luminoso (pag. 108_1a)
The fitting is provided with the system for the power reduction of the luminous flux (page 108_1a)
Die leuchte wird mit einen System für die Lichtsteuerung mit Programmierung des Lichtfluxes geliefert (Seite 108_1a)



06AK903_0

L3 Kit giunto singolo per palo Ø60-76
L3 Simple Joint for post Ø60-76mm,
L3 Kit Einzelmastanschlussstück für Ø60-76 Mast

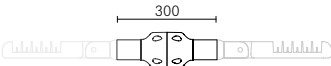


06AK921_0

B1 Braccio Ø60
B1 Arm Ø60
B1 Arm Ø60

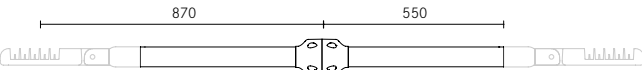
06PA0003_2

Palo Conico cimapalo Ø60 H=4 m
Conical pole pole top Ø60 H=4 m
Konischer Mast, Mastkopf Ø60, H=4 m



06AK904_0

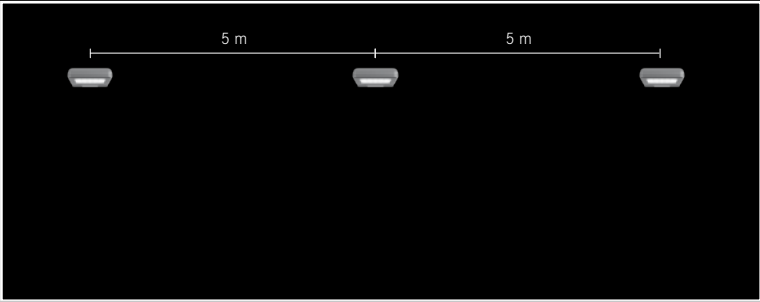
L4 Kit giunto doppio per palo Ø60-76
L4 Double Joint for Post Ø60-76mm
L4 Kit Doppelmastanschlussstück für Ø60-76 Mast



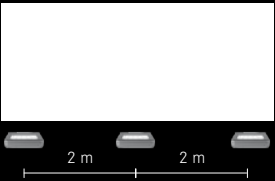
06AK922_0

B2 Braccio doppio Ø60
B2 Double Arm Ø60
B2 Doppelarm Ø60

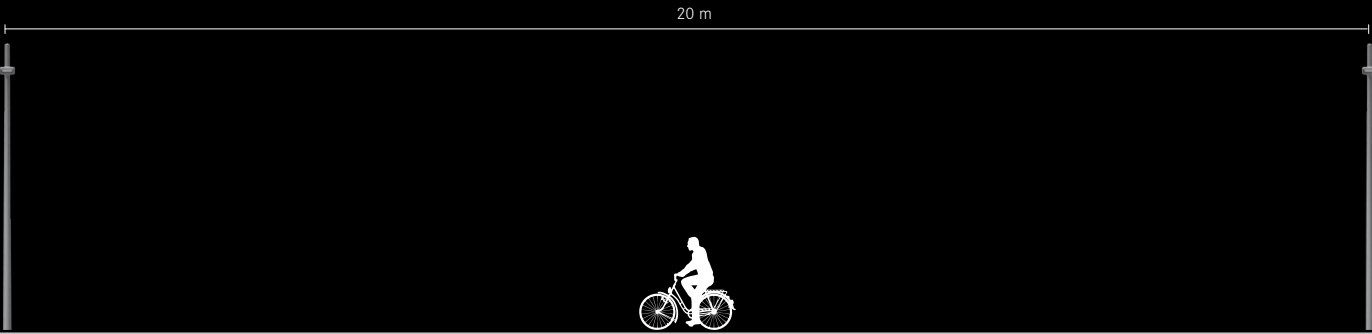
Perimetrale *Building's perimeter* Gebäudeumfang



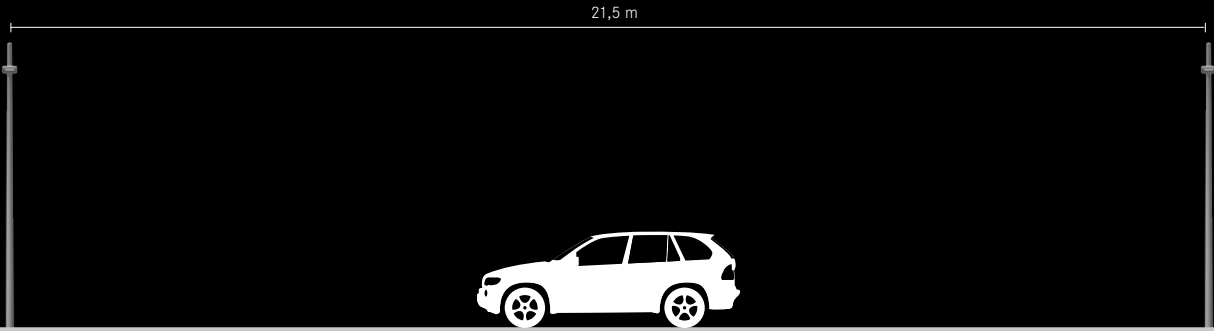
Pannello pubblicitario *Advertising sign* Werbeschild



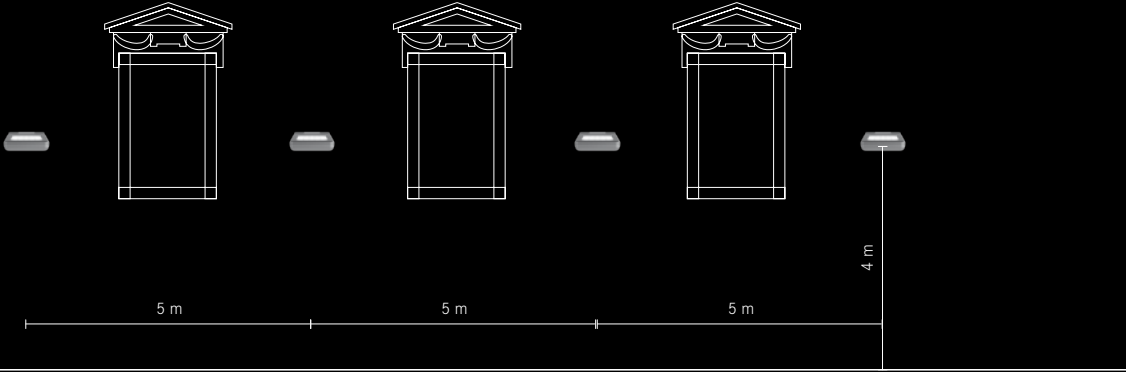
Ciclabile *Cycle Routes* Fahrradwege



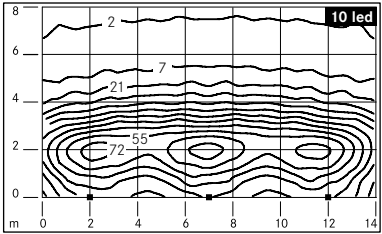
Strada *Street* Straße



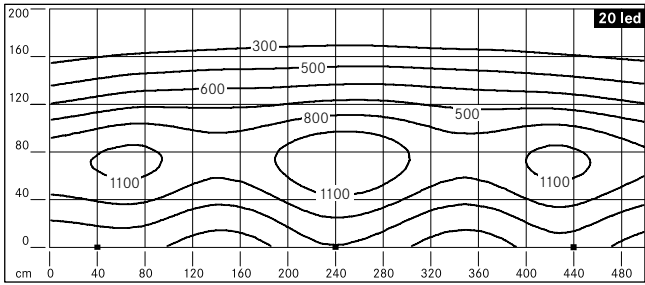
Facciata *Façade* Fassade



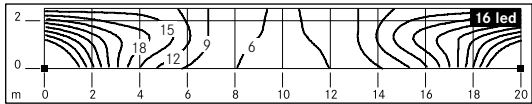
	Lm	La.z	Lu.z	D	H	Emed (lux)
10 Led Optic AS 4000 K	2680	14	8	5	4	33



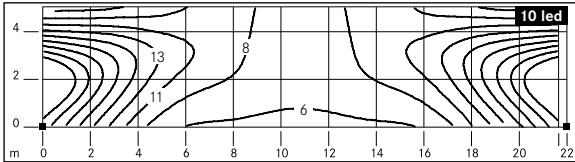
	Lm	La.z	Lu.z	D	S	Emed (lux)	U0 (Em)
20 Led Optic AS 4000 K	5360	5	2	2	1,5	663	0,28



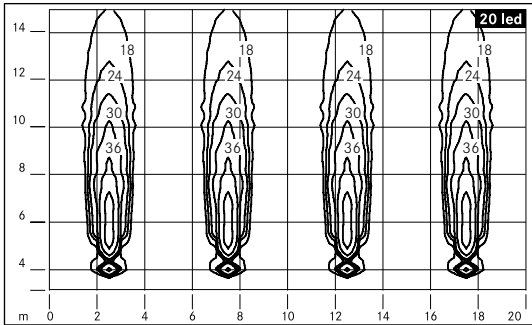
	Lm	n	La	H	D	K	Ar	Emed	Emin
UNI 11248 (S2)								15	5
16 Led optic STR 3000 K	3537	1	2,5	4	20	5	1	16	6



	Lm	n	La	H	D	K	Lm	Uo	UI	Ti	Sr	Emed
UNI 11248 (Me5)							0,50	0,35	0,4	<15%	>0,5	
10 Led optic STR 4000 K	2520	2	5	5	21,5	4,3	0,54	0,47	0,55	14,04	0,77	8



	Lm	La.z	H	D
20 Led Optic ROT	5360	20	15	5



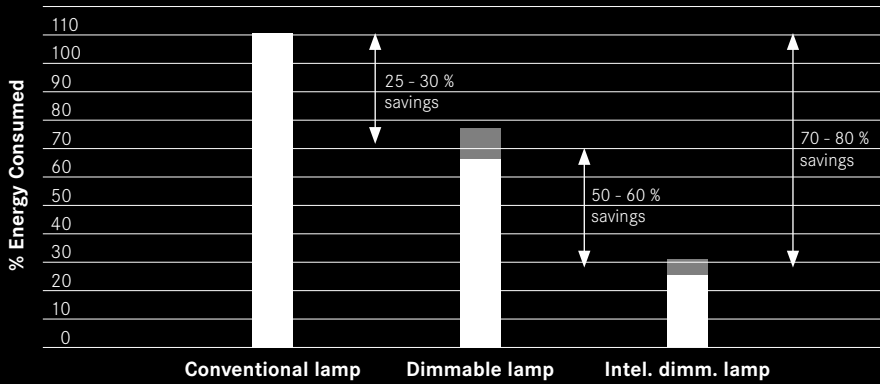
- Lm** = Flusso lm
Flux lm
Fluss lm
- n** = N° corsie
N° lanes
N° Fahrbahnen
- La** = Larghezza strada
Street width
Straßenbreite
- H** = Altezza
Height
Höhe
- D** = Interdistanza
Interdistance
Abstand
- K** = D/H
- La.z** = Larghezza area
Area width
Flächenbreite
- Lu.z** = Lunghezza area
Area length
Flächenlänge
- Emed[lux]** = Illuminamento medio
Average illumination
Mittlere Beleuchtung
- Uo(Em)** = Uniformità generale
General uniformity
Gleichmäßigkeit
- Lm[Cd/m2]** = Luminanza media
Medium luminance
Mittlere Leuchtdichte
- U0(Lm)** = Uniformità generale
General uniformity
Gleichmäßigkeit
- UI(Lm)** = Uniformità longitudinale
Lenghtwise uniformity
Längsgleichmäßigkeit
- Ti%** = Indice di abbagliamento
Dazzling index
Blendungsindex
- Sr** = Rapporto di contiguità
Contiguity ratio
Näheverhältnis
- S** = Lunghezza sbraccio
Arm lenght
Länge des Arms
- Ar** = Arretramento palo
Post withdrawal
Lichtpunktüberhang
- STR.** = Ottica stradale
Street Optique
Straßenoptik

LUMEN POWER								
LED SYSTEM	N° LED	K	mA	Potenza totale apparecchio <i>Total absorbed power</i> Systemleistung	Potenza totale piastra LED <i>Led plate absorbed power</i> Leistung der LED-Platine	Flusso luminoso fuori apparecchio <i>Lumen output of the fitting</i> Lumenoutput der Leuchte	Flusso luminoso nominale <i>Led plate nominal lumen output</i> Nennlumenoutput der LED-Platine	Efficienza apparecchio <i>Efficiency of the fitting</i> Effizienz der Leuchte (lm/W)
LEVANTE MEDIUM	16	4000	700	38	34	3750	4360	99
ottica stradale LT-M/LT-L	16	4000	525	28	25	2975	3460	106
street optics LT-M/LT-L	16	4000	350	18	16	2120	2465	118
straßenoptik LT-M/LT-L	28	4000	700	67	59	6450	7500	87
	28	4000	525	49	43	5110	5940	93
	28	4000	350	32	28	3670	4265	103
	44	4000	700	104	91	9940	11560	96
	44	4000	525	76	67	7930	9220	104
	44	4000	350	50	44	5720	6650	115
	16	3000	700	38	34	3290	3825	84
	16	3000	525	28	25	2610	3035	92
	16	3000	350	18	16	1860	2160	101
	28	3000	700	67	59	5660	6580	96
	28	3000	525	49	43	4485	5215	104
	28	3000	350	32	28	3220	3745	114
	44	3000	700	104	91	8725	10145	84
	44	3000	525	76	67	6960	8090	92
	44	3000	350	50	44	5020	5835	100
LEVANTE MEDIUM	30	4000	700	71	63	6910	8035	97
ottica asimmetrica <i>asymmetric optics</i>	40	4000	700	95	63	9040	10510	85
asymmetrische optik	30	3000	700	71	63	6065	7050	95
	40	3000	700	95	63	7930	9220	83
LEVANTE SMALL	10	4000	700	24	21	2080	2520	87
ottica stradale	16	4000	700	38	34	3330	4030	88
street optics	20	4000	700	48	42	4160	5035	87
straßenoptik	16	3000	700	38	34	2920	3535	77
	20	3000	700	48	42	3650	4420	76
LEVANTE SMALL	10	4000	700	24	21	2215	2680	92
ottica asimmetrica <i>asymmetric optics</i>	16	4000	700	38	34	3540	4285	93
asymmetrische optik	20	4000	700	48	42	4425	5360	92
	16	3000	700	38	34	3105	3760	82
	20	3000	700	48	42	3885	4700	81
LEVANTE SMALL	10	4000	700	24	21	2215	2680	92
ottica rotosimmetrica <i>rotosymmetrical optics</i>	20	4000	700	48	42	4425	5360	92
rotosymmetrisch optik	20	3000	700	48	42	3885	4700	81

REGULATION SYSTEM		
(IT)	(UK)	(DE)
Scopo fondamentale della regolazione del flusso luminoso è il risparmio energetico, conseguenze dirette sono la diminuzione dell'inquinamento luminoso e della generazione di CO2. I sistemi di regolazione gestiscono il flusso in uscita per mezzo di elettroniche dedicate. Tali elettroniche possono essere preprogrammate o con programmazioni basate su autoapprendimento oppure per mezzo di segnali inviati da apposite centrali di telecontrollo su cavi dedicati, cavi di rete o wireless. L'intensità dei LED può essere diminuita fino a livelli molto bassi senza compromettere la stabilità della temperatura di colore della luce e dell'indice di resa cromatica, e senza diminuire l'efficienza.	<i>Preliminary remarks: the fundamental aim of the luminous flux regulation is energy saving, direct consequences are the reduction of lighting pollution and CO2 generation. The available management devices control the light emission by means of proper electronic devices. These devices can be pre-programmed either with systems based on self-learning or by means of signals, sent by apposite remote control systems on proper cables, net cables or wireless. The intensity of the LEDs can be reduced up to very low levels without compromising the stability of the colour temperature of the light and the colour rendering index, without reducing the efficiency.</i>	Das Ziel der Leistungsreduzierung durch das Management des Lichtstromes ist Energie-sparen, die positiven Auswirkungen sind das Absenken der Lichtverschmutzung und der Emission von CO2. Lichtsteuerungssysteme steuern den Licht-strom durch speziell entwickelte elektronische Komponenten. Diese Systeme können verschiedene Lösungen anbieten: Vorschaltge-räte, die werksseitig programmiert werden; intelligente Vorschaltgeräte oder externe Systeme die auf die Selbsterlernung der vir-tuellen Mitternacht basieren; Steuergeräte zur Remote-Kontrolle die durch zusätzliche Steuerleitungen, durch über das Netz aufmo-dulierte Signale oder durch andere wireless Systeme funktionieren. Der Lichtstrom der LEDs kann auf niedriges Niveau abgesenkt werden, ohne die Stabilität der Farbtemperatur des Lichtes, des Farb-wiedergabeindexes und die Effizienz negativ zu beeinflussen.

Nel grafico seguente si vede come incide pesantemente sui consumi la gestione del flusso luminoso:

Energy consumption index



Per lampada dimmerata si intende una gestione della luce con variazione “rigida” dei livelli luminosi, ossia indipendente dalle variabili ambientali; la dimmerazione intelligente si basa invece sull’analisi dell’ambiente esterno e del tempo (per esempio un sistema di autoapprendimento che calcola i tempi di commutazione dei livelli in funzione delle stagioni). Tra le possibili soluzioni atte alla gestione dei livelli di flusso luminoso negli apparecchi con sorgente luminosa a LED Cariboni Group ha deciso di rendere disponibili le seguenti:
1. Autoapprendimento (mezzanotte virtuale) con possibilità di programmazione
2. Onde convogliate

By dimmable lamp we mean the dimming of the light with “fixed” variations of the luminous levels, independently from the environmental factors; the intelligent dimmable lamp, instead, is based on the analysis of the environment and the time (for instance, a self-learning system which calculates the switching-on and -off times, also according to the seasons). Among the possible suitable solutions for the management of the luminous flux levels, which can be used in the fittings with LED light sources, Cariboni Group has decided to make available the following:
1. Self-learning (virtual midnight) with possibility of regulation
2. Remote monitoring and control system

Als “Dimmable lamp” (dimmbare Leuchte) wird hier ein Managementsystem gemeint, das eine “werkseitig” definierte Leistungsreduzierung vorsieht, ohne die variablen Umweltfaktoren zu berücksichtigen. Die intelligente Lichtsteuerung (Intelligent dimmable lamp) basiert dagegen auf der Analyse der Umweltfaktoren wie Jahreszeiten, die Elektronik des Vorschaltgerätes „erlernt“ auf Basis der Dauer der Einschaltzeiten die Zeiten der Leistungsreduzierung. Unten den verschiedenen Lösungsmöglichkeiten für die Lichtsteuerung von LED-Leuchten, hat die Cariboni Group entschieden, folgende Steuerungen in ihren Leuchten anzubieten:
1. Steuerung über Selbsterlernung (virtuelle Mitternacht) mit Möglichkeit der Programmierung.
2. Steuerung durch über das Netz aufmodulierte Signale

1. **AUTOAPPRENDIMENTO (MEZZANOTTE VIRTUALE) CON POSSIBILITÀ DI PROGRAMMAZIONE**
SELF-LEARNING (VIRTUAL MIDNIGHT) WITH POSSIBILITY OF REGULATION
SELBSTERLERNUNG (VIRTUELLE MITTERNACHT) MIT MÖGLICHKEIT DER PROGRAMMIERUNG

LEVANTE SMALL

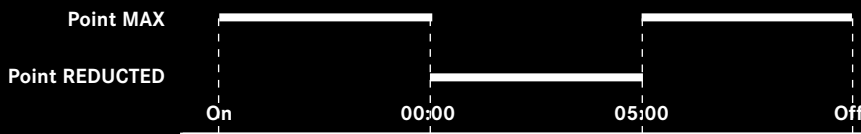
1a. Sistema di regolazione del flusso luminoso, periodo fisso
Regulation system of the luminous flux, fixed tim
Möglichkeit der Regulierung des Lichtstromes jedoch mit festen Zeiten der Leistungsreduzierung

(IT)
È possibile impostare il livello di dimmerazione regolando la corrente, mediante l'utilizzo di microswitch. La regolazione del flusso luminoso può variare dal 100% al 55% con step del 5%. L'analisi della durata delle notti con identificazione della mezzanotte virtuale, viene effettuata sulle prime 10 notti, una volta identificata, i driver attueranno la riduzione dalla mezzanotte virtuale per le 5 ore successive.

(UK)
By means of a microswitch, it is possible to set up the dimming level by regulating the current. The regulation of the luminous flux can vary from 100% to 55% with adjustment possibility each 5%. The analysis of the duration of the nights, with identification of the virtual midnight, is realised during the first 10 nights; once identified, the drivers carries out the power reduction starting from the virtual midnight, for a fixed time of 5 hours. (The duration of the period is not adjustable).

(DE)
Das Niveau der gewünschten Leistungsreduzierung wird mittels eines «Microswitch-Schalters» am elektronischem Vorschaltgerät eingestellt. Die Leistungsreduzierung kann von 100% bis 55% voreingestellt werden, in 5 Schritten. Das Vorschaltgerät analysiert in diesem Fall die Dauer der Nacht und der Betriebsstunden für eine Periode von 10 Nächten; nach dieser Periode identifiziert das Vorschaltgerät die virtuelle Mitternacht (Mittelpunkt der Betriebsstunden); die Leistungsreduzierung erfolgt für eine Zeit von 5 Stunden ab der virtuellen Mitternacht.

Ex. code:
06LV3.....HM3



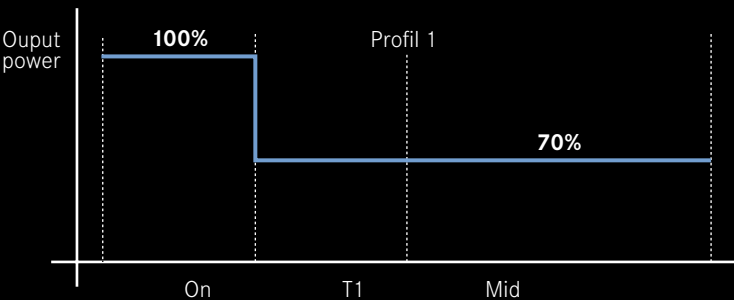
LEVANTE MEDIUM

1B. Autoapprendimento mezzanotte virtuale con programmazione preimpostata selezionabile
Self learning of the virtual midnight with possibility to choose among predefined programs
Selbsterlernung der virtuellen mitternacht mit wahlmöglichkeit unter vorherbestimmten programmierungen

(IT)
Alimentatore con rotary switch che permette di scegliere tra 5 differenti programmi preimpostati di regolazione del flusso luminoso ciascuno per le 3 varianti di corrente (350-525-700mA) ed uno per la regolazione 1-10V. Alla selezione del programma, l'alimentatore attiva uno speciale algoritmo che permette la riduzione del flusso luminoso, e di conseguenza della potenza assorbita, durante le ore centrali della notte.

(UK)
Driver equipped with rotary-switch, with possibility of selection among 5 pre-defined, not modifiable programs of regulation of the luminous flux for three supply current (350-525-700mA) and the last one 1-10V. By means of an analogic voltage signal between 1V, corresponding to the minimum luminosity level, and 10V, corresponding to the maximum luminosity level, it is possible to regulate the luminous flux. According to the chosen program, the driver activates a special algorithm which enables the reduction of the luminous flux, and consequently of the total absorbed power, during the central hours of the night.

(DE)
Elektronisches Vorschaltgerät mit Rotary-Switch, das eine Wahlmöglichkeit unter 5 verschiedenen vorherbestimmten und nicht veränderbaren Programmierungen von Regulierung des Lichtstromes, je nach den 3 Versorgungsströme (350-525-700mA), und eine 1-10V Regulierung erlaubt. Nach dem Wahl der Programmierung, setzt das Vorschaltgerät einen besonderen Algorithmus in Betrieb, der die Reduzierung des Lichtstromes, und damit auch der Systemleistung, während der zentralen Betriebsstunden der Nacht erlaubt.



ES. PROFILE 1
TI= Mid - 2 ore
(Mid: Mezzanotte virtuale
Virtual Midnight
Virtuellen Mitternacht)

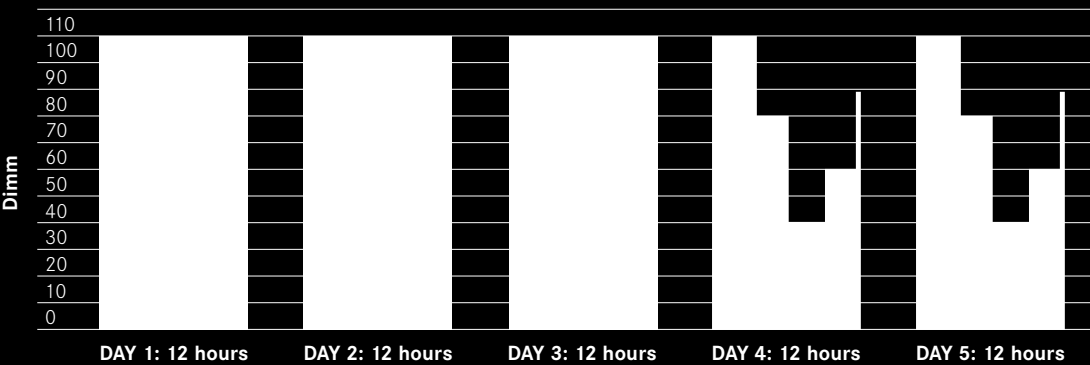
Ex. code:
06LV4.....HM3

1C. Autoapprendimento mezzanotte virtuale programmabile custom su richiesta del cliente
Self learning of the virtual midnight with possibility of custom programs
Selbsterlernung der virtuellen mitternacht mit möglichkeit von personalisierbarer programmierung

(IT)
Nel prodotto viene inserito il driver elettronico, prodotto da **PHILIPS**, che viene fornito con sistema Dynadim completamente integrato. Questa funzione, regolabile mediante l'utilizzo di un software, consente la regolazione della luce e dei tempi, fino a 5 livelli. Il tempo virtuale dell'orologio, viene determinato dal funzionamento del driver nelle prime 3 notti, dopo di che, calcolata la mezzanotte virtuale, esegue automaticamente la dimmerazione programmata.

(UK)
In this case, the electronic driver which is installed in the fittings is produced by PHILIPS and it is supplied with a Dynadim system, completely integrated. This function, adjustable through the connection to a software, enables the regulation of flux and time, up to 5 levels. The virtual time of the timer is determined during the functioning of the driver in the first 3 nights; then, after the calculation of the virtual midnight, it automatically carries out the scheduled dimming.

(DE)
Diese Variante wird mit einem elektronischen Vorschaltgerät mit integriertem **PHILIPS** Dynadim System ausgestattet. Dieses Vorschaltgerät kann durch die Verwendung einer Software programmiert werden und ermöglicht die freie Regulierung des Prozentsatzes Lichtstromabsenkung und der Zeiten der Leistungsreduzierung, bis. max. 5 Niveaus. Die Selbsterlernung der virtuellen Zeit erfolgt in den ersten drei Nächten im Betrieb; nach dieser Periode startet die programmierte Leistungsreduzierung .



Ex. code:
06LV4.....HM4

2 **ONDE CONVOGLIATE**
REMOTE MONITORING AND CONTROL SYSTEM
STEUERUNG ÜBER AUFMODULIERTE SIGNALE

(IT)
Tramite la comunicazione ad onde convogliate, quindi senza cavi aggiuntivi nell'impianto, è possibile comunicare con ogni singolo punto luce. È così possibile monitorare il funzionamento e definire il comportamento di ciascun apparecchio a LED in base a standard luminosi predefiniti . Una centralina di telecontrollo, gestita da remoto, monitorizza 24 ore al giorno ogni punto luce.

(UK)
Through the remote monitoring and control system communication (without additional cables in the installation), it is possible to communicate with every single lighting fitting. In this way it is possible to monitor the functioning and define the behaviour of each LED fitting, on the basis of pre-defined luminous standard. A central control unit in each installation, which can also be remote controlled, monitors every lighting fitting 24 hours a day.

(DE)
(ohne zusätzliche Kabel in der Netzinstallation) kann man die Funktion der Lichtpunkte überwachen und den Lichtstrom jeder Leuchte gemäß der Anforderungen regulieren. Ein zentrales Steuergerät wird in die Beleuchtungsanlage eingebunden: dieses wird 24 Stunden pro Tag die Leuchten überwachen und die Möglichkeit bieten, jeden Lichtpunkt durch Remote-Kontroll anzusteuern. Die Steuersysteme, die mit unserer Leuchten verwendet werden können, sind: REVERBERI, UMPI, POWER ONE.



(IT)

New performances:

- nuovo e più performante sistema ottico
- nuovi LED con maggior flusso ed efficienza
- i nuovi sistemi di protezioni dalle sovratensioni

Apparecchio a LED adatto per l'installazione a parete, a terra con picchetto e su palo. Ideale per l'illuminazione di facciate, aree sportive, spazi commerciali, aree verdi e per l'illuminazione di piste ciclo-pedonali e strade. Sorgenti: da 16 a 44 POWER LED con temperatura colore cool e warm white. CRI (indice di resa cromatica): Ra ≥ 70. Disponibili ottiche di tipo asimmetrica e stradale. Ottica asimmetrica composta da moduli con riflettori realizzati per stampaggio ad iniezione di polycarbonato trasparente e successivamente sottoposti ad un processo di metallizzazione superficiale sottovuoto. Ottiche stradali composte da lenti in polimetilmetacrilato ad alta trasparenza, LT-M fascio medio e LT-L fascio largo. I sistemi ottici sono stati progettati in modo da realizzare un solido fotometrico che insiste sulla medesima area di competenza del singolo apparecchio di illuminazione. Corpo e staffa in pressofusione di alluminio. Introdotto un sistema di protezione dalle sovratensioni di modo differenziale fino a 10 kV. Colori: sablé 100 Noir, grigio RAL9006 e bianco RAL9003. Elementi accessori: giunto e prolunga per fissaggio a parete; picchetto per l'installazione a terra e giunto di fissaggio per picchetto; kit di fissaggio per pali, sistemi braccio per l'installazione su palo e sistemi palo conici, quadri e conici curvi. Disponibili sistemi di programmazione dell'accensione, spegnimento e riduzione del flusso luminoso di ogni singolo punto luce.

(UK)

New performances:

- nuovo e più performante sistema ottico
- nuovi LED con maggior flusso ed efficienza
- i nuovi sistemi di protezioni dalle sovratensioni

Levante is a LED-floodlight, suitable for wall fastening, installation on pole or installation at ground with proper stake for ground fastening. It is ideally suitable for the lighting of façades, sport facilities, commercial areas, green areas, parking places, cycle or pedestrian routes, streets. Light sources: from 16 to 44 POWER LED, with warm and cool white colour temperature. CRI (colour rendering index): Ra ≥ 70. Two available optics: street optics and asymmetrical optics. Asymmetrical optics is composed by series of micro-reflectors, which are injected in transparent polycarbonate and consequently metalized in a vacuum. Street optics composed by high transparency poly methyl-metacrylate lenses, LT-M medium beam and LT-L wide beam. Optic system have been developed to realize the same beam opening and light up the same area at ground as all the others. Die-cast aluminium body and bracket. Protection against differential mode overvoltages up to 10 kV. Colours: dark grey Sablé 100 Noir, grey RAL9006 and white RAL9003. Parts of the system: joint and bracket for wall fastening; joint and stake for ground fastening; joints, fastening kits and arms for the installation on poles; conical poles, squared poles, conical curved poles have been studied purposely to suit with LEVANTE MEDIUM. The floodlight is also available with special systems to enable the programming of the switching-on and off of the fitting, the power reduction and the regulation of the flux of each single light point.

(DE)

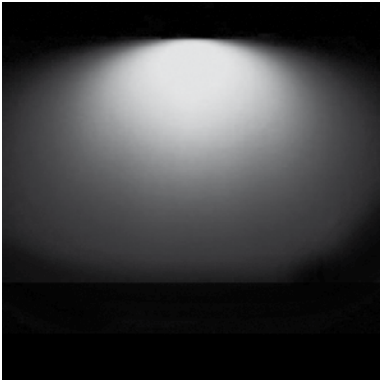
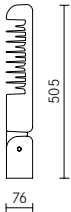
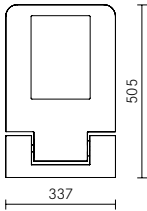
New performances:

- Wegen des neuen, leistungsstärkeren optischen Systems;
- für die neuen LEDs mit höheren Lumenpaket und Effizienz
- Wegen der neuen Vorrichtungen zum Überspannungsschutz

LEVANTE MEDIUM ist ein LED-Strahler, der für Wand-, Mast- oder Bodeninstallation konzipiert ist. Er ist hervorragend geeignet für die Beleuchtung von Fassaden, Sportanlagen, Industriezonen, Grünzonen, Parkplätzen, Fahrrad- und Gehwegen, Straßen. Lichtquell: von 16 bis 44 POWER LEDs, mit warm und kalt weisser Farbetemperatur. CRI (Farbwiedergabeindex): Ra ≥ 70. Erhältlich in 2 verschiedenen Varianten: asymmetrische Optik und Straßenoptik. Die asymmetrische Optik besteht aus einem Modul von Reflektoren, welches aus Spritzguss aus transparentem Polycarbonat hergestellt ist; nachfolgend werden die Reflektoren unter Vakuum metallisiert. Die StraÙeoptik besteht aus Transparenz Polymethylmetacrylat Linsen, LT-M Engstrahlend und LT-L Breitstrahlend. Beide Optik der Leuchte sind entwickelt worden um eine spezielle Lichtverteilung, die alle die gleiche Fläche am Boden ausleuchtet zu realisieren. Gehäuse und Bügel sind aus Aluminiumdruckguss. Schutz gegen gegenüber verlaufenden Überspannungen bis 10kV. Farben: Anthrazit Sablé100Noir, grau RAL9006 und weiß RAL9003. Zubehörteile: Verbindungsstück und Ausleger für Wandbefestigung; Verbindungsstück und Pfahl für Bodeninstallation; Verbindungsstück, Mastschellen und Ausleger für Mastinstallation; Konische und Konische gebogene Masten.

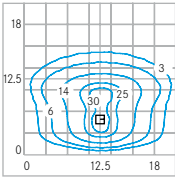
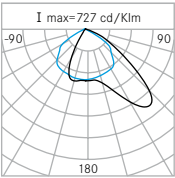
LEVANTE MEDIUM

Design by Silvio De Ponte - R&S Cariboni Lite

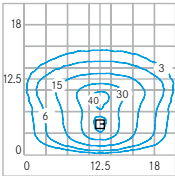
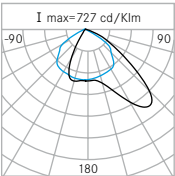


Ottica asimmetrica
Asymmetric Optics
Asymmetrische Optik

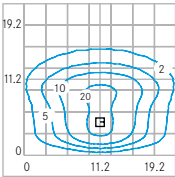
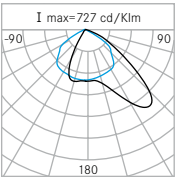
06LV4D0007_					
30 LED	700 mA	63W	8035 lm	4000 K	



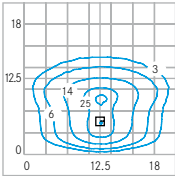
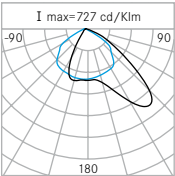
06LV4E0007_					
40 LED	700 mA	83W	10510 lm	4000 K	



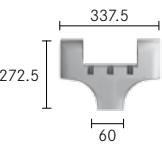
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30 LED	700 mA	63W	7050 lm	3000 K	



06LV4E0097_					
40 LED	700 mA	83W	9220 lm	3000 K	

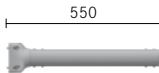


Accessori Accessories Zubehör



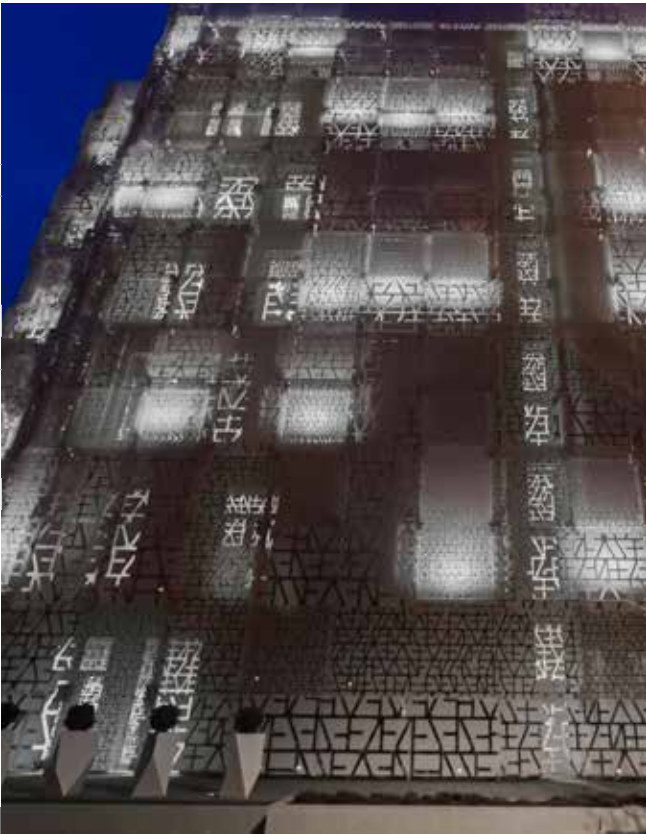
L10 Giunto per palo 1xØ60
L10 Die cast joint for post-top installation 1xØ60mm
L10 Druckguss Mastverbindungstück für 1xØ60mm Mast

06AK954_0



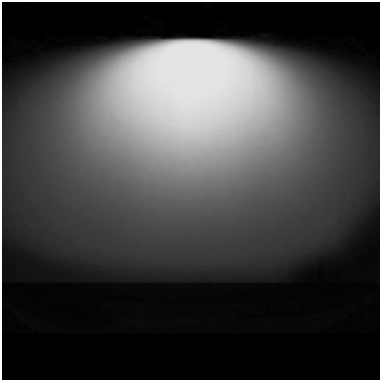
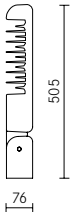
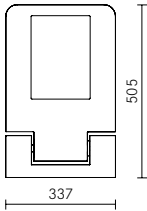
B1 P Braccio parete 1xØ60
B1 P Wall Bracket 1xØ60
B1 P Wandausleger 1xØ60

06AK951_0



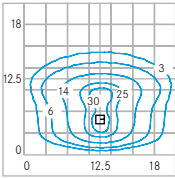
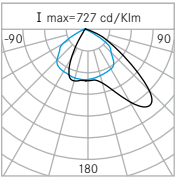
Ottica stradale codici pag.119 *Street Optics codes page 119* Straßenoptik Codes Seite 119

Per definizione colore nel codice sostituire “_” con
In order to define the colour of the fitting, replace “_” in the codes with
Um die Farbe der Leuchte zu bestimmen, in der Kodenummer ersetzen Sie “_” mit
A = grigio RAL 9006 *grey RAL 9006* grau RAL 9006
C = sablé 100 Noir *dark grey Sablé 100 Noir* Anthrazit Sablé 100 Noir
D = bianco RAL 9003 *white RAL 9003* weiß RAL 9003

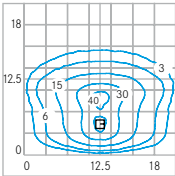
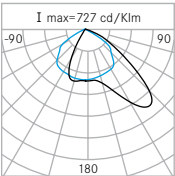


Ottica asimmetrica
Asymmetric Optics
Asymmetrische Optik

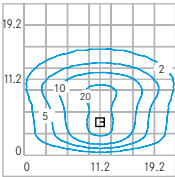
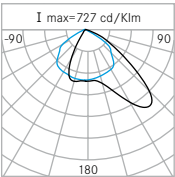
06LV4D0007_					
30 LED	700 mA	63W	8035 lm	4000 K	



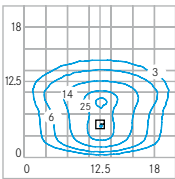
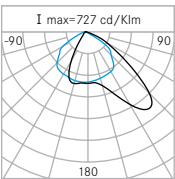
06LV4E0007_					
40 LED	700 mA	83W	10510 lm	4000 K	



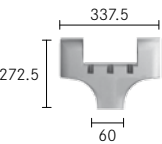
06LV4D0097_					
30 LED	700 mA	63W	7050 lm	3000 K	



06LV4E0097_					
40 LED	700 mA	83W	9220 lm	3000 K	

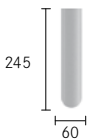


Accessori Accessories Zubehör



L10 Giunto per palo 1xØ60
L10 Die cast joint for post-top installation 1xØ60mm
L10 Druckguss Mastverbindungsstück für 1xØ60mm Mast

06AK954_0



I1 Picchetto 1xØ60 Sablé 100 Noir
I1 Stake for ground installation 1xØ60mm, Sablé 100 Noir
I1 Pflock für Bodeninstallation 1xØ60, Sablé 100 Noir

06AK953C0

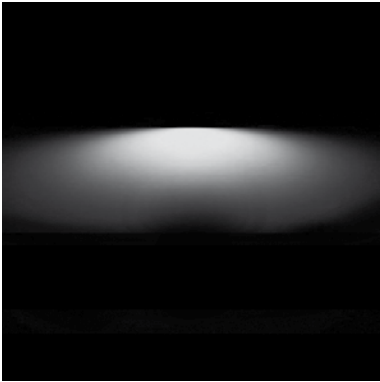
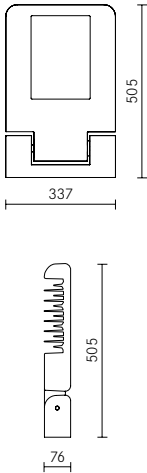


Per definizione colore nel codice sostituire “_” con
In order to define the colour of the fitting, replace “_” in the codes with
Um die Farbe der Leuchte zu bestimmen, in der Kodenummer ersetzen Sie “_” mit
A = grigio RAL 9006 grey RAL 9006 grau RAL 9006
C = sablé 100 Noir dark grey Sablé 100 Noir Anthrazit Sablé 100 Noir
D = bianco RAL 9003 white RAL 9003 weiß RAL 9003



LEVANTE MEDIUM

Cl. II IP66230V 50HzCEFmax 8 kg.CUT OFFLEVANTE MEDIUM



Ottica stradale
Street Optics
Straßenoptik

LT-M						
06LV4B6008_HM3	16LED	700mA	34W	4360lm	4000K	
06LV4B6098_HM3	16LED	700mA	34W	3825lm	3000K	

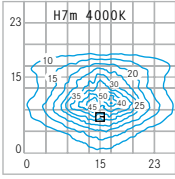
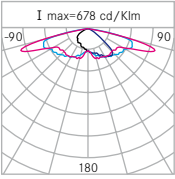
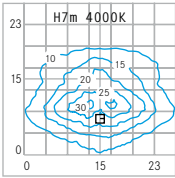
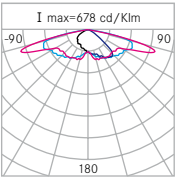
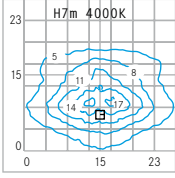
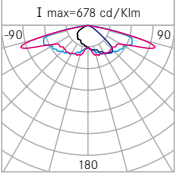
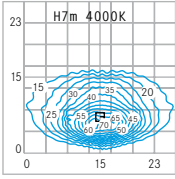
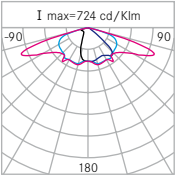
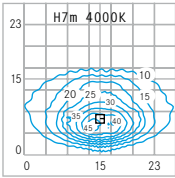
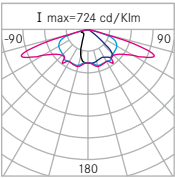
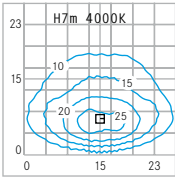
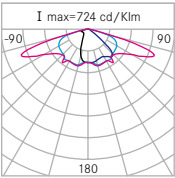
06LV4C8008_HM3	28LED	700mA	59W	7500lm	4000K	
06LV4C8098_HM3	28LED	700mA	59W	6580lm	3000K	

06LV4E4008_HM3	44LED	700mA	91W	11560lm	4000K	
06LV4E4098_HM3	44LED	700mA	91W	10145lm	3000K	

LT-L						
06LV4B6006_HM3	16LED	700mA	34W	4360lm	4000K	
06LV4B6096_HM3	16LED	700mA	34W	3825lm	3000K	

06LV4C8006_HM3	28LED	700mA	59W	7500lm	4000K	
06LV4C8096_HM3	28LED	700mA	59W	6580lm	3000K	

06LV4E4006_HM3	44LED	700mA	91W	11560lm	4000K	
06LV4E4096_HM3	44LED	700mA	91W	10145lm	3000K	



Il prodotto è fornito completo di sistema di programmazione del flusso luminoso
The fitting is provided with the system for the power reduction of the luminous flux
Die leuchte wird mit einen System für die Lichtsteuerung mit Programmierung des Lichtfluxes geliefert
P. 108_1b

Datasheet 350mA – 525mA p. 106

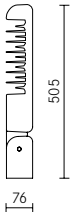
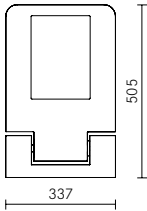
06PA0007_
Palo Conico Curvo Singolo + Tronchetto Ø60 H=8m
Conical curved pole with single arm Ø60 H=8m
Gebogener Konischer Mast, mit Einzelarm Ø60 H=8m

06PA0008_
Palo Conico Curvo Singolo + due Tronchetti Ø60 H=8m
Conical curved pole with double arm Ø60 H=8m
Gebogener Konischer Mast, mit Doppelarm Ø60 H=8m

06PA0009_
Palo Conico Curvo Doppio +Tronchetti Ø60 H=8m
Conical curved pole with double arm Ø60, H=8 m
Gebogener Konischer Mast, mit Doppelarm Ø60, H=8m

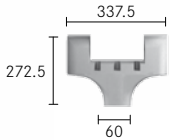
Per definizione colore nel codice sostituire “_” con
In order to define the colour of the fitting, replace “_” in the codes with
Um die Farbe der Leuchte zu bestimmen, in der Kodenummer ersetzen Sie “_” mit
A = grigio RAL 9006 grey RAL 9006 grau RAL 9006
C = sablé 100 Noir dark grey Sablé 100 Noir Anthrazit Sablé 100 Noir

Accessori Accessories Zubehör	
	L10 Giunto per palo 1xØ60 L10 Die cast joint for post-top installation 1xØ60mm L10 Druckguss Mastverbindungsstück für 1xØ60mm Mast 06AK954_0
	L11 Giunto parete L11 Joint for wall L11 Wandverbindungsstück 06AK955_0

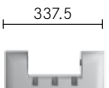


Per definizione colore nel codice sostituire “_” con
In order to define the colour of the fitting, replace “_” in the codes with
Um die Farbe der Leuchte zu bestimmen, in der Kodenummer ersetzen Sie “_” mit
A = grigio RAL 9006 *grey RAL 9006* grau RAL 9006
C = sablé 100 Noir *dark grey Sablé 100 Noir* Anthrazit Sablé 100 Noir

Accessori *Accessories* Zubehör



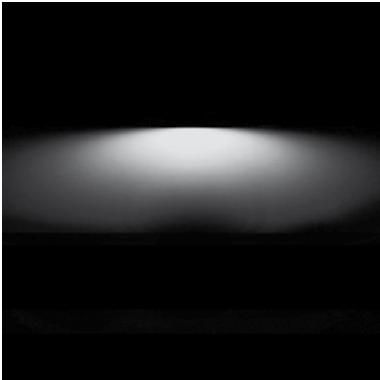
L10 Giunto per palo 1xØ60
L10 Die cast joint for post-top installation 1xØ60mm
L10 Druckguss Mastverbindungsstück für 1xØ60mm Mast
06AK954_0



L11 Giunto parete
L11 Joint for wall
L11 Wandverbindungsstück
06AK955_0



L15 Kit attacco palo Ø60-76
L15 Kit for post-top installation Ø60-76mm
L15 Kit für Mastaufsatzinstallation Ø60-76 mast
06AK900_0



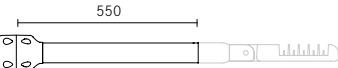
Ottica stradale
Street Optics
Straßenoptik

Il prodotto è fornito completo di sistema di programmazione del flusso luminoso
The fitting is provided with the system for the power reduction of the luminous flux
Die leuchte wird mit einen System für die Lichtsteuerung mit Programmierung des Lichtfluxes geliefert
P. 108_1b

Datasheet 350mA – 525mA p. 106



06AK903_0
L3 Kit giunto singolo per palo Ø60-76
L3 Simple Joint for post Ø60-76mm,
L3 Kit Einzelmastanschlussstück für Ø60-76 Mast



06AK921_0
B1 Braccio Ø60
B1 Arm Ø60
B1 Arm Ø60

06PA0010_2
Palo Conico cimapalo Ø60 H=7,5 m
Conical pole pole top Ø60 H=7,5 m
Konischer Mast, Mastkopf Ø60, H=7,5 m

LT-M
06LV4B6008_HM3 16LED 700mA 34W 4360lm 4000K
06LV4B6098_HM3 16LED 700mA 34W 3825lm 3000K

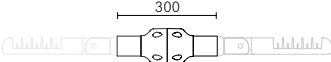
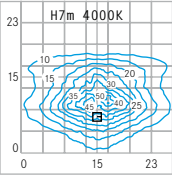
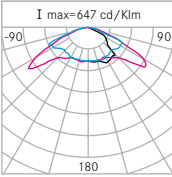
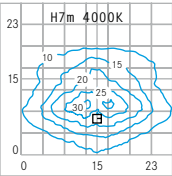
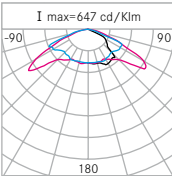
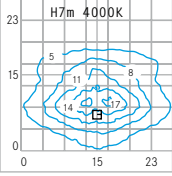
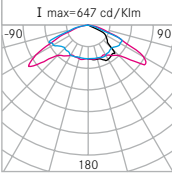
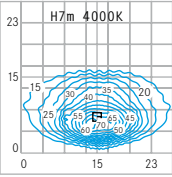
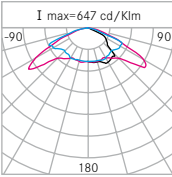
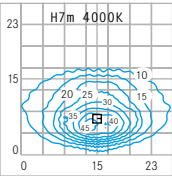
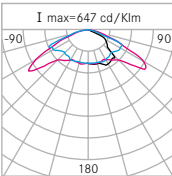
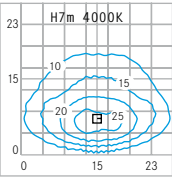
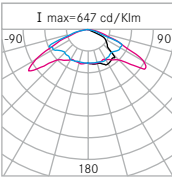
06LV4C8008_HM3 28LED 700mA 59W 7500lm 4000K
06LV4C8098_HM3 28LED 700mA 59W 6580lm 3000K

06LV4E4008_HM3 44LED 700mA 91W 11560lm 4000K
06LV4E4098_HM3 44LED 700mA 91W 10145lm 3000K

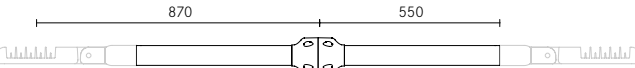
LT-L
06LV4B6006_HM3 16LED 700mA 34W 4360lm 4000K
06LV4B6096_HM3 16LED 700mA 34W 3825lm 3000K

06LV4C8006_HM3 28LED 700mA 59W 7500lm 4000K
06LV4C8096_HM3 28LED 700mA 59W 6580lm 3000K

06LV4E4006_HM3 44LED 700mA 91W 11560lm 4000K
06LV4E4096_HM3 44LED 700mA 91W 10145lm 3000K

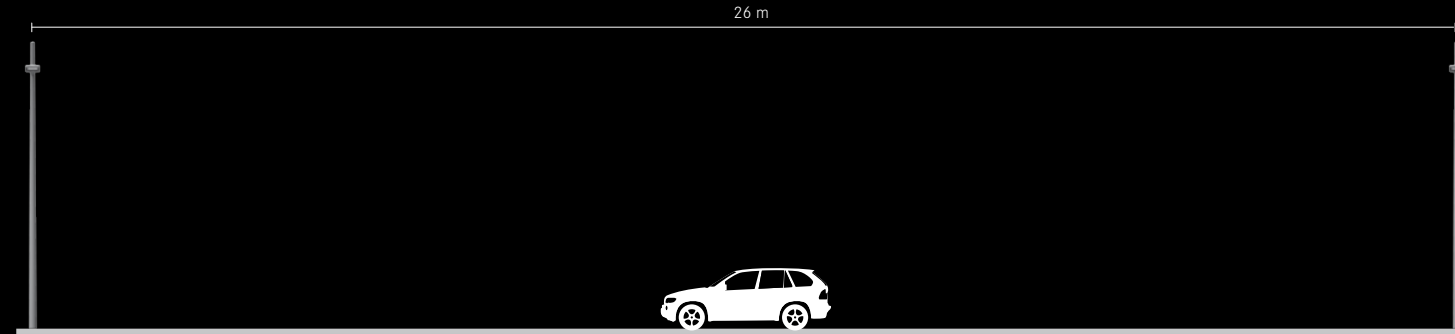


06AK904_0
L4 Kit giunto doppio per palo Ø60-76
L4 Double Joint for Post Ø60-76mm
L4 Kit Doppelmastanschlussstück für Ø60-76 Mast

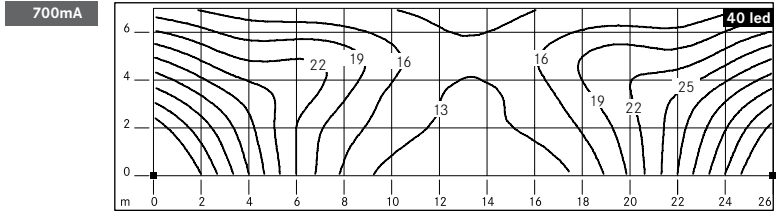


06AK922_0
B2 Braccio doppio Ø60
B2 Double Arm Ø60
B2 Doppelarm Ø60

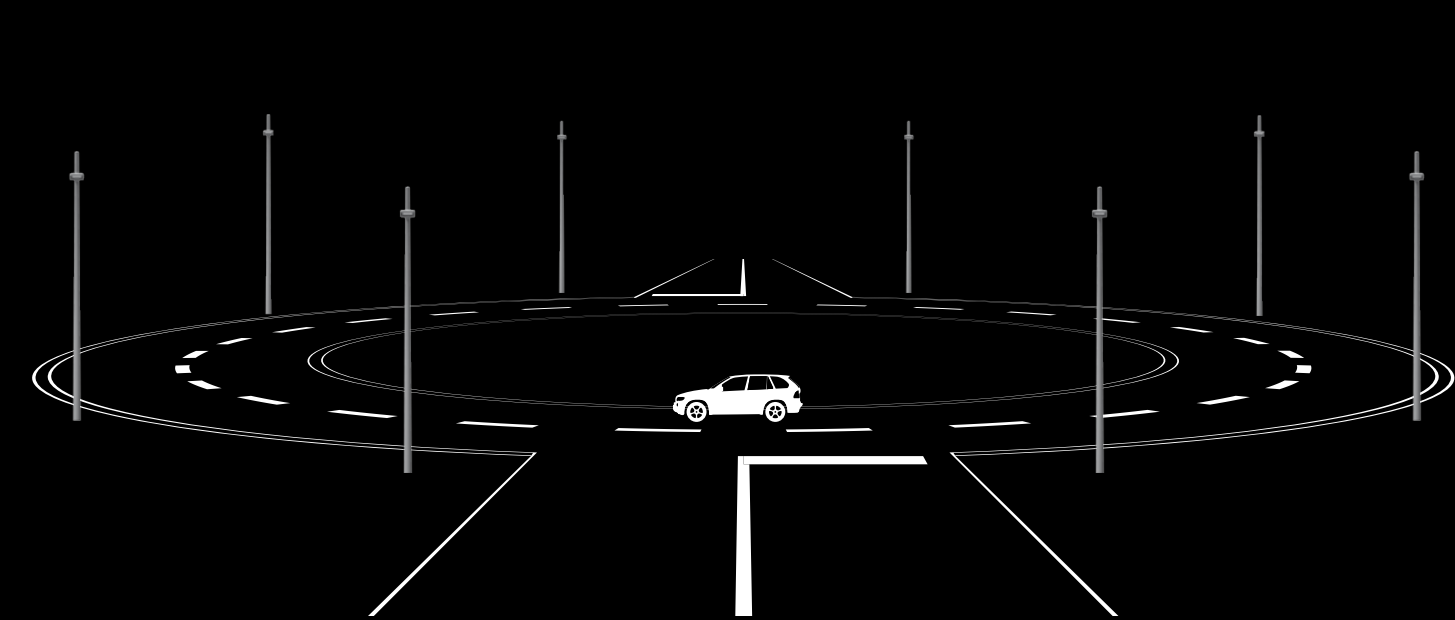
Strada *Street* Straße



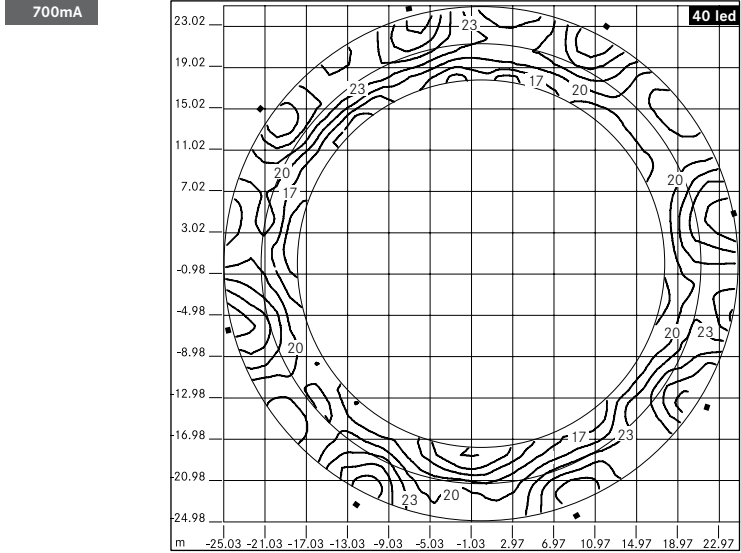
	Lm	n	La	H	D	K	Lm	Uo	UI	Ti	Sr	Emed
UNI11248 (Me3b)							1	0,4	0,6	<15%	>0,5	
28 Led optic LT-M 4000 K	7500	2	7	7	26	3,7	1,20	0,49	0,82	12,19	0,54	19



Rotatoria *Roundabout* Kreisverkehr

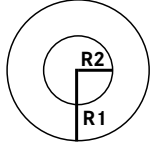


	Lm	n	La	R1	R2	H	Ar	Emed	Uo
UNI11248 (CE2)								20	0,4
16 Led optic LT-L 4000 K	4360	2	7	25	18	8	1	21	0,88



R1= Raggio esterno
External radius
Außenradius

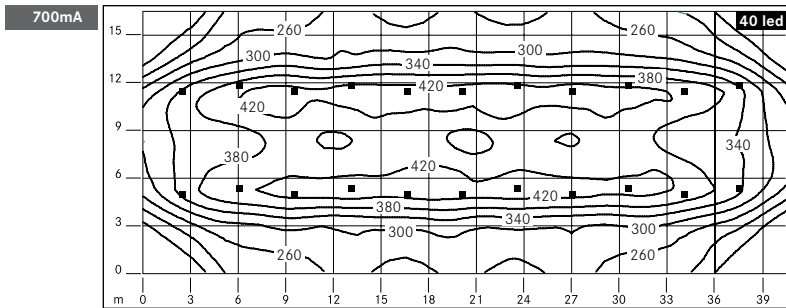
R2= Raggio interno
Internal radius
Innenradius



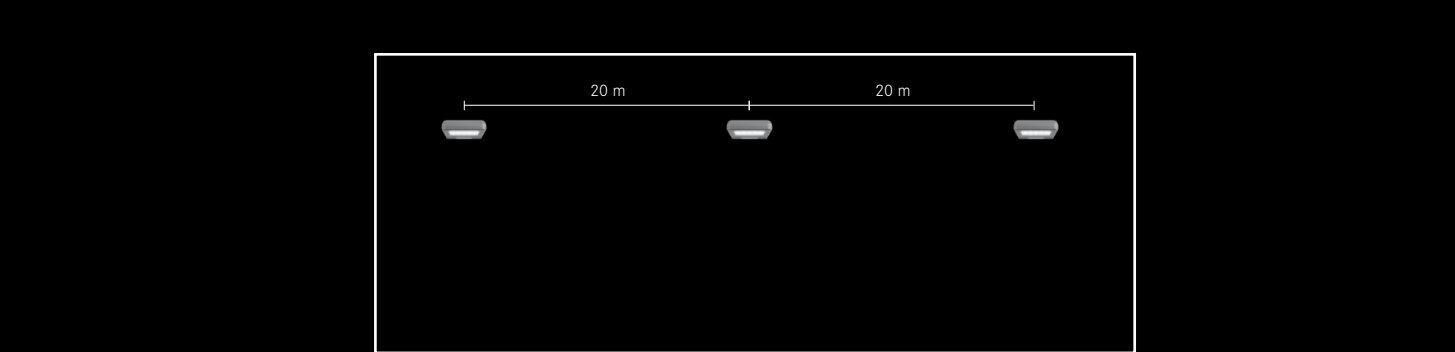
Capannone *Storehouse* Lagerhalle



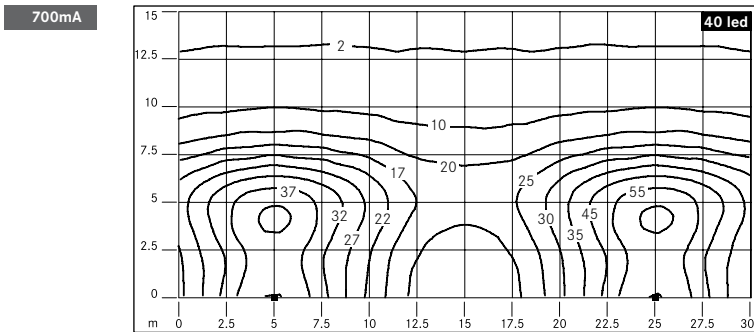
	Lm	Lu.z	La.z	D	H	Emed	Uo
UNI12464-1						300	
40 Led optic AS 4000 K	10510	40,5	16,5	3,5	5,3	336	0,50



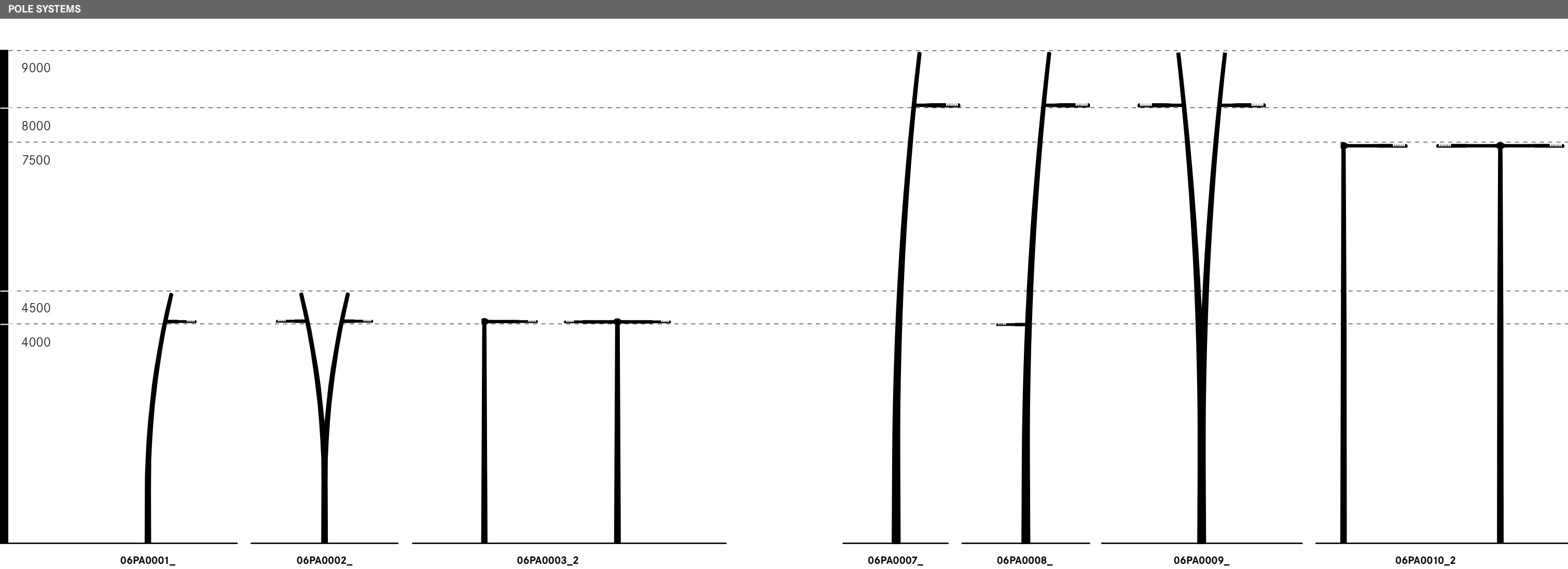
Perimetrale *Building's perimeter* Gebäudeumfang



	Lm	La.z	Luz	D	H	Emed
40 Led optic AS 4000 K	10510	30	15	20	7	22



- Lm** = Flusso lm
Flux lm
Fluss lm
- n** = N° corsie
N° lanes
N° Fahrbahnen
- La** = Larghezza strada
Street width
Straßenbreite
- H** = Altezza
Height
Höhe
- D** = Interdistanza
Interdistance
Abstand
- K** = D/H
- La.z** = Larghezza area
Area width
Flächenbreite
- Lu.z** = Lunghezza area
Area length
Flächenlänge
- Em[lux]** = Illuminamento medio
Average illumination
Mittlere Beleuchtung
- Uo(Em)** = Uniformità generale
General uniformity
Gleichmäßigkeit
- Lm[Cd/m2]** = Luminanza media
Medium luminance
Mittlere Leuchtdichte
- U0(Lm)** = Uniformità generale
General uniformity
Gleichmäßigkeit
- UI(Lm)** = Uniformità longitudinale
Lengthwise uniformity
Längsgleichmäßigkeit
- Ti%** = Indice di abbagliamento
Dazzling index
Blendungsindex
- Sr** = Rapporto di contiguità
Contiguity ratio
Näheverhältnis
- S** = Lunghezza sbraccio
Arm length
Länge des Arms
- Ar** = Arretramento palo
Post withdrawal
Lichtpunktüberhang
- STR.** = Ottica stradale
Street Optique
Straßenoptik



Levante Small



Levante Medium



FLOWER TOWER

