

*Viabizzuno strada principale della frazione di bizzuno in provincia di ravenna dove tra la casa del popolo e la parrocchia, al n°17, sono nato il ventuno luglio millenovecentocinquantacinque. da qui nasce il nome della fabbrica di produzione fondata nel millenovecentonovantaquattro rappresentata da uno spazio bianco attraversato da due linee. una verticale, rigorosa, essenziale, equilibrata: la luce per la luce; ed una inclinata, irriverente nello spazio, ironica, fuori dagli schemi: la luce per la forma. distinte ma complementari si fondono in un unico nome: Viabizzuno.*

Viabizzuno is the name of the main road of the small village bizzuno located in the province of ravenna, where I was born on the twenty-first july nineteenfiftyfive at n°17, between the 'casa del popolo' and the local parish church. from here the name of the factory founded in nineteen ninety-four represented by a white space intersected by two lines. one vertical, well balanced, logical, essential: the light for the light. the other one dynamic, irreverent, ironic: the light for the form. separate and yet complementary they cast in the same name: Viabizzuno. marionanni

*i progetti rendono gli oggetti eterni,  
le mode li corrompono, gli imbecilli li copiano  
e li vendono agli ignoranti e ai deficienti.  
noi progettiamo e lavoriamo per aiutare la luce  
ad emozionarvi.*

*i frutti delle nostre idee e dei nostri progetti  
sono protetti da brevetti  
e/o modelli registrati  
e/o da diritto d'autore.*

*design makes objects timeless,  
fashion corrupts them,  
fools copy them and sell them to  
ignorants and idiots.  
we do projects and work to help light to bring  
you true emotion.  
the results of our ideas and our projects  
are protected by patents  
and/or registered models  
and/or copyright.*

*al fine di offrire ai nostri clienti la massima qualità della luce utilizzando le più avanzate tecnologie, forti del nostro sapere artigiano costruito in italia, aggiorniamo costantemente i nostri apparecchi di illuminazione.*

*Viabizzuno si riserva il diritto di apportare ai propri modelli, senza nessun preavviso, qualsiasi modifica ritenesse opportuna. per dimensioni e codici fanno fede i nostri strumenti di lavoro [www.Viabizzuno.com](http://www.Viabizzuno.com), [Viacommerce@](mailto:Viacommerce@), [Viabizzunoapplight](http://Viabizzunoapplight) e [Viabizzunoonline](http://Viabizzunoonline).*

*in order to provide to our customers the maximum quality of light using the most advanced technologies, being strong of our artisan knowledge made in italy, we constantly update our lighting fixtures.*

*Viabizzuno reserves the right to make any modification, considered worthwhile, to its own models, without any notification. for valid dimensions and codes please consult our working tools [www.Viabizzuno.com](http://www.Viabizzuno.com), [Viacommerce@](mailto:Viacommerce@), [Viabizzunoapplight](http://Viabizzunoapplight) and [Viabizzunoonline](http://Viabizzunoonline).*

# lettura delle tabelle tecniche how to read technical tables

XXXXXXXXXXXXXXXXXX										
230V 50-60Hz				A	⊕	IP66		US	CE	
a	b	c	d	e	f	g	g	h	i	

XXXXXXXXXXXXXXXXXX										
230V 50-60Hz				A	⊕	IP66		US	CE	
Vbx.xxx.xx	nero55	3000K		35W	1,5					
l	m	n	o	i						

<b>componenti. components.</b>	IK10	CE	
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<b>accessori. accessories.</b>	IK10	CE	
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1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

Ra	R9	ies tm/30		sdcM	Vf	lm/m	W/m	lm/W	
95	90	Rf 90	Rg 98	step 2	24	1200	13	92	F
V0000	5,9		Ta25 °C	vita media · average life	50000 h	L80	B10		

11	12	13	14
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bandella tecnica. posizioni standard simbologie.  
data plate. standard arrangement of symbols.

a	nome apparecchio di illuminazione · light fitting name
b	tensione di alimentazione · supply rating (Volt)
c	frequenza di alimentazione · supply frequency (Hertz)
d	alimentatore incluso o escluso · power supply included or not included
e	classe di isolamento · insulation class
f	grado di protezione · protection degree
g	marchio di certificazione · safety and quality standards certification
h	conforme alle direttive europee produced in compliance with EC directives
i	peso netto · net weight (kg)
l	codice · code
m	finitura · finish
n	temperatura colore sorgente elettronica colour temperature led source (Kelvin)
o	potenza della sorgente · source power (Watt)

componenti. identifica tutti gli elementi indispensabili per la corretta funzionalità e installazione dell'apparecchio di illuminazione.  
components. includes all items that are essential to the correct operation and installation of the light fitting.

accessori. si riferisce alle ulteriori parti installabili sull'apparecchio.  
accessories. refers to items that can be added to the light fitting.

1	indice di resa cromatica · colour rendering index
2	indice di resa del rosso · red colour rendering index
3	Rf indice di fedeltà colore · colour fidelity index Rg indice di saturazione colore · color gamut index
4	step di macadam · macadam step
5	corrente di alimentazione · power supply current
6	tensione di alimentazione · power supply voltage
7	flusso luminoso · light flux
8	potenza della sorgente · source power
9	efficienza della sorgente · source efficiency
10	classe di efficienza energetica · efficiency class
11	codice sorgente elettronica Viabizzuno · Viabizzuno led source code
12	superficie emittente · light emitting surface (mm)
13	% flusso residuo a fine vita · end life % flux
14	% consentita sotto limite · allowed % under limit



## gradi di protezione protection degrees

IP0X	<i>non protetto</i> no protection	IPX0	<i>non protetto</i> no protection		
IP1X	<i>contro corpi estranei &gt;50 mm</i> protection against solid objects	IPX1	<i>protetto contro la caduta verticale di gocce d'acqua</i> protected against water drops falling vertically	IK01	<i>nessuna protezione</i> no protection
IP2X	<i>contro corpi estranei &gt;12 mm</i> protection against solid objects	IPX2	<i>protetto contro la caduta di gocce con inclinazione max 15°</i> protected against water drops max inclination 15°	IK02	<i>protetto contro l'energia d'urto 0,2J</i> protected against collision energy
IP3X	<i>contro corpi estranei &gt;2,5 mm</i> protection against solid objects	IPX3	<i>protetto contro la caduta di gocce con inclinazione max 60°</i> protected against water drops max inclination 60°	IK03	<i>protetto contro l'energia d'urto 0,35J</i> protected against collision energy
IP4X	<i>contro corpi estranei &gt;1 mm</i> protection against solid objects	IPX4	<i>protetto contro spruzzi d'acqua</i> protected against sprinkling water	IK04	<i>protetto contro l'energia d'urto 0,5J</i> protected against collision energy
IP5X	<i>protezione da polvere</i> dust-protected	IPX5	<i>protetto contro getti d'acqua</i> protected against water jets	IK05	<i>protetto contro l'energia d'urto 0,7J</i> protected against collision energy
IP6X	<i>stagno alla polvere</i> dust-proof	IPX6	<i>protetto contro inondazioni</i> protected against flooding	IK06	<i>protetto contro l'energia d'urto 1J</i> protected against collision energy
		IPX7	<i>per breve immersione</i> protected against brief immersions	IK07	<i>protetto contro l'energia d'urto 2J</i> protected against collision energy
		IPX8	<i>per immersione prolungata</i> protected against long immersion	IK08	<i>protetto contro l'energia d'urto 5J</i> protected against collision energy
				IK09	<i>protetto contro l'energia d'urto 10J</i> protected against collision energy
				IK10	<i>protetto contro l'energia d'urto 20J</i> protected against collision energy

## legenda simboli symbols key

-  tavolo · table
-  terra · floor standing
-  soffitto · ceiling
-  parete · wall
-  sospensione · suspension
-  binario · track
-  incasso · recessed
-  scomparsa totale · fully concealed
-  segnaletica+emergenza · signalling system+emergency
-  portatili autoalimentati a batteria · portable self-powered with battery
-  sistemi · systems
-  palo · pole
-  paletto · bollard
-  seduta · sitting
-  disponibile su · available on [Viabizzuno apflight](http://Viabizzuno.aplight.com) [www.Viabizzuno.com](http://www.Viabizzuno.com) [Viabizzuno online](http://Viabizzuno.online)
-  classe I. solo isolamento fondamentale, le parti conduttrici accessibili sono collegate ad un conduttore di terra. messa a terra tassativa  
class I. only basic insulation, accessible conductors are earthed. earthing compulsory
-  classe II. all'isolamento principale è aggiunto un secondo isolamento oppure ai due isolamenti è sostituito un isolamento rinforzato. messa a terra esclusa  
class II. basic insulation plus second insulation or both are replaced by reinforced insulation. earthing excluded
-  classe III. alimentazione effettuata con bassissima tensione di sicurezza; sono escluse tensioni superiori a 50V-50Hz. messa a terra non prevista.  
class III. very low safety supply tension; not to be used over 50V-50Hz. earthing excluded.
-  prodotto conforme alle direttive europee · produced in compliance with ec directives
-  marchio di certificazione europea. certifica che il prodotto è conforme alle norme europee sulla sicurezza  
component approved for north american market and suitable to be used and approved as part of a more complex system
-  componente certificato per il mercato nord americano idoneo ad essere utilizzato e valutato come parte di in un sistema più complesso  
component approved for north american market and suitable to be used and approved as part of a more complex system
-  apparecchio di illuminazione approvato da kema · kema approved light fitting
-  prodotto conforme agli standard presenti nel regno unito che regolamentano la sicurezza e la qualità dell'acqua · product complies with uk standards set out by water regulations
-  apparecchio di illuminazione certificato secondo le normative vigenti in polonia che regolamentano i dispositivi di sicurezza antincendio  
certified light fitting according to the regulations about devices for fire safety in force in poland
-  prodotto idoneo per essere commercializzato nel mercato cinese · product suitable for the china market
-  prodotto finito idoneo per essere commercializzato nel mercato nord americano · listed product suitable for the north american market
-  prodotto conforme alla legislazione vigente nel regno unito · produced in compliance with UK legislation
-  apparecchio di illuminazione certificato per il mercato cinese  
light fitting certified for china market

-  *vetro opalino* · opal glass
-  *vetro sabbiato* · sanded glass
-  *vetro nero fumè* · black smoke glass
-  *vetro trasparente* · transparent glass
-  *vetro bianco latte* · white milk glass
-  *crystallo* · crystal
-  *policarbonato opalino* · opal polycarbonate diffuser
-  *carrabile* · drive over
-  *alimentatore incluso* · power supply included
-  *alimentatore escluso* · power supply not included
-  **AR** *alimentatore remoto incluso* · remote power supply included
-  **Ai** *alimentatore elettronico con controllo intelligente incluso* · electronic power supply with smart control included
-  **AiR** *alimentatore elettronico con controllo intelligente incluso, da installare remoto* · electronic power supply with smart control included, to be installed remotely
-  **AS** *alimentatore a spina incluso* · plug power supply included
-  **T** *trasformatore incluso* · transformer included
-  **T** *trasformatore escluso* · transformer not included
-  **K** *kit di cablaggio* · wiring kit
-  **K** *kit di cablaggio escluso* · wiring kit not included
-  **L** *lampadina con sorgente elettronica led, ad incandescenza, alogena o fluorescente inclusa.*  
bulb with led electronic source, incandescent, halogen or fluorescent included.
-  **L** *lampadina con sorgente elettronica led, ad incandescenza, alogena o fluorescente esclusa.*  
bulb with led electronic source, incandescent, halogen or fluorescent not included.
-  **Pr** *propulsore dinamico n55 incluso* · included
-   *possibilità di combinazione tra interfaccia n55, propulsore dinamico n55 e lampadina n55* · possible combination between n55 interface, propulsore dinamico n55 and n55 bulb
-  *attenzione: sorgente luminosa led. non guardare mai direttamente a occhio nudo* · attention: led light source. never look straight without eye protection
-  **ff** *flicker free compatibile con fotocamere digitali* · flicker free digital camera friendly
- l.d.** *luce diretta* · direct light
- l.i.** *luce indiretta* · indirect light
- .d1** *dimmerazione 1-10V* · 1-10V dimmable
- .d2** *dimmerazione dali* · dimmable dali
- .SA** *kit luce + emergenza sempre accese. attenzione: non è possibile installare nelle cassaforme laterizio*  
light kit + permanently lit emergency lamp. please note: cannot be installed in brickwork housing
- .SE** *solo emergenza sempre accesa. attenzione: non è possibile installare nelle cassaforme laterizio*  
permanently lit emergency lamp only. please note: cannot be installed in brickwork housing
-  **i** *peso netto* · net weight (kg)



*apparecchio di illuminazione da terra per interni IP20, realizzato in alluminio ossidato e zama verniciata a polvere. composto da una base 200x200mm in cui sono innestate due aste diametro Ø13mm h.1000 o h.1800mm.*

*modelli:*

*n55 terra con diffusori classici hm02,  
n55 terra con diffusori decorativi dc02,  
n55 terra con diffusori decorativi kk01,  
n55 terra con diffusori decorativi pz03,  
n55 terra con diffusori decorativi pz01 e pz03,  
n55 terra con diffusore decorativo wm01 e diffusore tecnico spot82x79,  
n55 terra con diffusore decorativo pz01 e diffusore tecnico spot82x79,  
n55 terra con diffusore classico hm02 e diffusore tecnico spot55x61.  
cablati con propulsore dinamico n 55/350 les19 9,7W 350mA 1240lm,  
e 55/500 les19 14W 500mA 1580lm Ra98 1 step macadam.*

*l'apposito attacco n permette di intercambiare tre tipi di diffusore: classico, decorativo e tecnico. eventuali irregolarità del vetro sono garanzia di un prodotto unico, soffiato e realizzato interamente a mano da maestri vetrai.*

*base predisposta per alloggiare due aste 48Vdc cablata con alimentatore 120-240V, asta cablata con converter 48V a controllo intelligente che fornisce automaticamente la corrente adeguata al tipo di propulsore.*

*ruotando l'asta sulla base è possibile spegnere e accendere con quattro intensità di luce differenti: luce massima (100%), luce d'ambiente (60%), luce di riposo (25%), off (0%).*

*finiture: argento hacca, nero55, vetro trasparente, satinato, bianco latte.*

*personalizza la tua luce vai su [www.Viabizzuno.com](http://www.Viabizzuno.com)*

**IP20 rated table light fitting for indoor use, made of oxidised aluminium and powder coated zamak alloy. consisting of a 200x200mm base where two diameter Ø13mm h.1000 or h.1800mm rods are inserted.**

**versions:**

**n55 terra with hm02 classic diffuser,  
n55 terra with dc02 decorative diffuser,  
n55 terra with kk01 decorative diffuser,  
n55 terra with pz03 decorative diffuser,  
n55 terra with pz01 e pz03 decorative diffuser,  
n55 terra with wm01 decorative bulb and spot82x79 technical bulb,  
n55 terra with pz01 decorative bulb and spot82x79 technical bulb,  
n55 terra with hm02 classic bulb and spot55x61 technical bulb.  
wired with propulsore dinamico n 55/350 les19 9.7W 350mA 1240lm,  
and 55/500 les19 14W 500mA 1580lm Ra98 1 step macadam.**

**the specific n joint allows to change three types of light diffuser: classic, decorative and technical. any irregularities in the glass are a guarantee of an unique product, blown and entirely hand crafted by master glassmakers.**

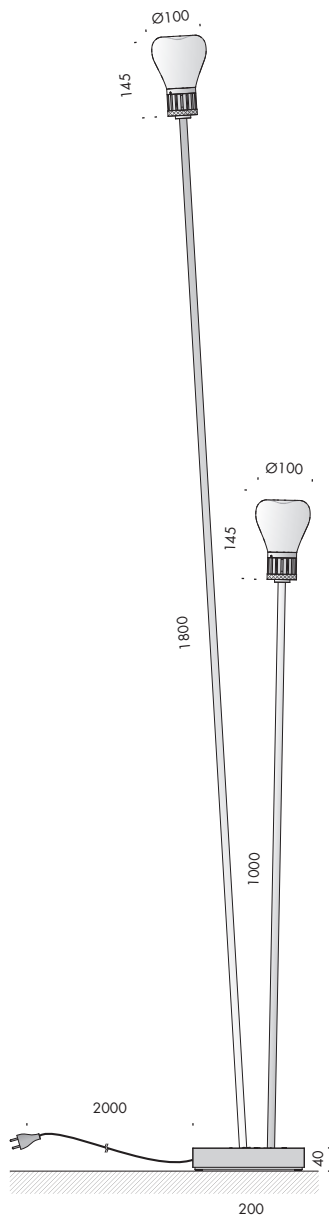
**the base is designed to accommodate two rods (48Vdc) and it is wired with 120-240V power supply, rod wired with 48V converter with intelligent control which automatically provides the suitable current according to the type of propeller.**

**by turning the rod on its base four different light intensities can be achieved: maximum light (100%), ambient light (60%) and restful light (25%), off (0%).**

**finishes: argento hacca, nero55; transparent, satin and milk white glass.**

**customize your light visit [www.Viabizzuno.com](http://www.Viabizzuno.com)**





n55 terra hm02

120-240V 50-60Hz

IP20 df pr UK CE i

Via.552.0600 argento hacca sabbaiato · sanded 2700K les19 ● n55 10

Via.552.0602 nero55 sabbaiato · sanded 2700K les19 ● n55 10

#### h.1800

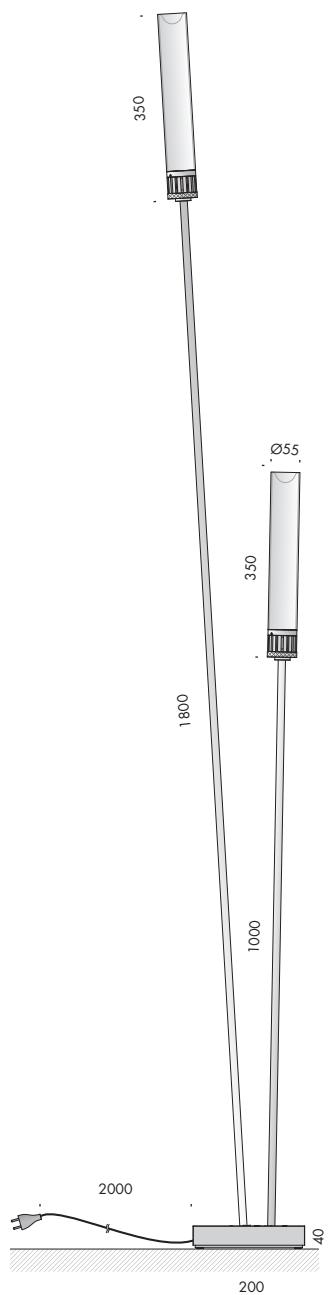
Ra	R9	ies tm-30		sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

#### h.1000

Ra	R9	ies tm-30		sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**n55 terra dc02**

120-240V 50-60Hz

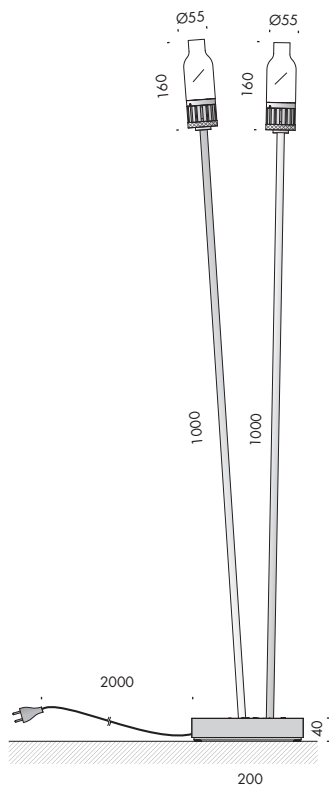
**Via.552.0604** argento hacca sabbaiato · sanded 2700K les19 ● n55 10**Via.552.0606** nero55 sabbaiato · sanded 2700K les19 ● n55 10**h.1800**

Ra	R9	ies tm-30		sdcM	mA	$V_f$ (min)	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**h.1000**

Ra	R9	ies tm-30		sdcM	mA	$V_f$ (min)	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	





n55 terra kk01

120-240V 50-60Hz



Via.552.0608 argento hacca cristallo · crystal 2700K les19 ● n55 10

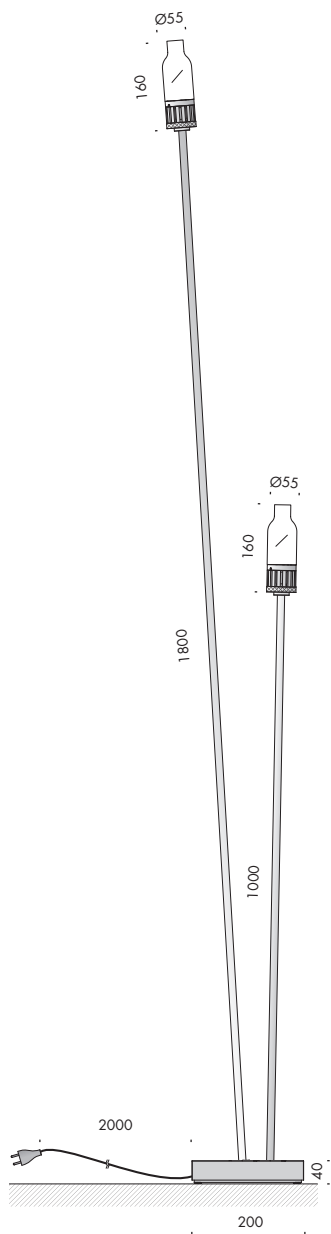
Via.552.0612 nero55 cristallo · crystal 2700K les19 ● n55 10

#### h.1000

Ra	R9	ies tm-30	sdcM	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96 Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10		







**n55 terra kk01** 120-240V 50-60Hz

**Via.552.0610** argento hacca cristal · crystal 2700K les19 ● n55 10

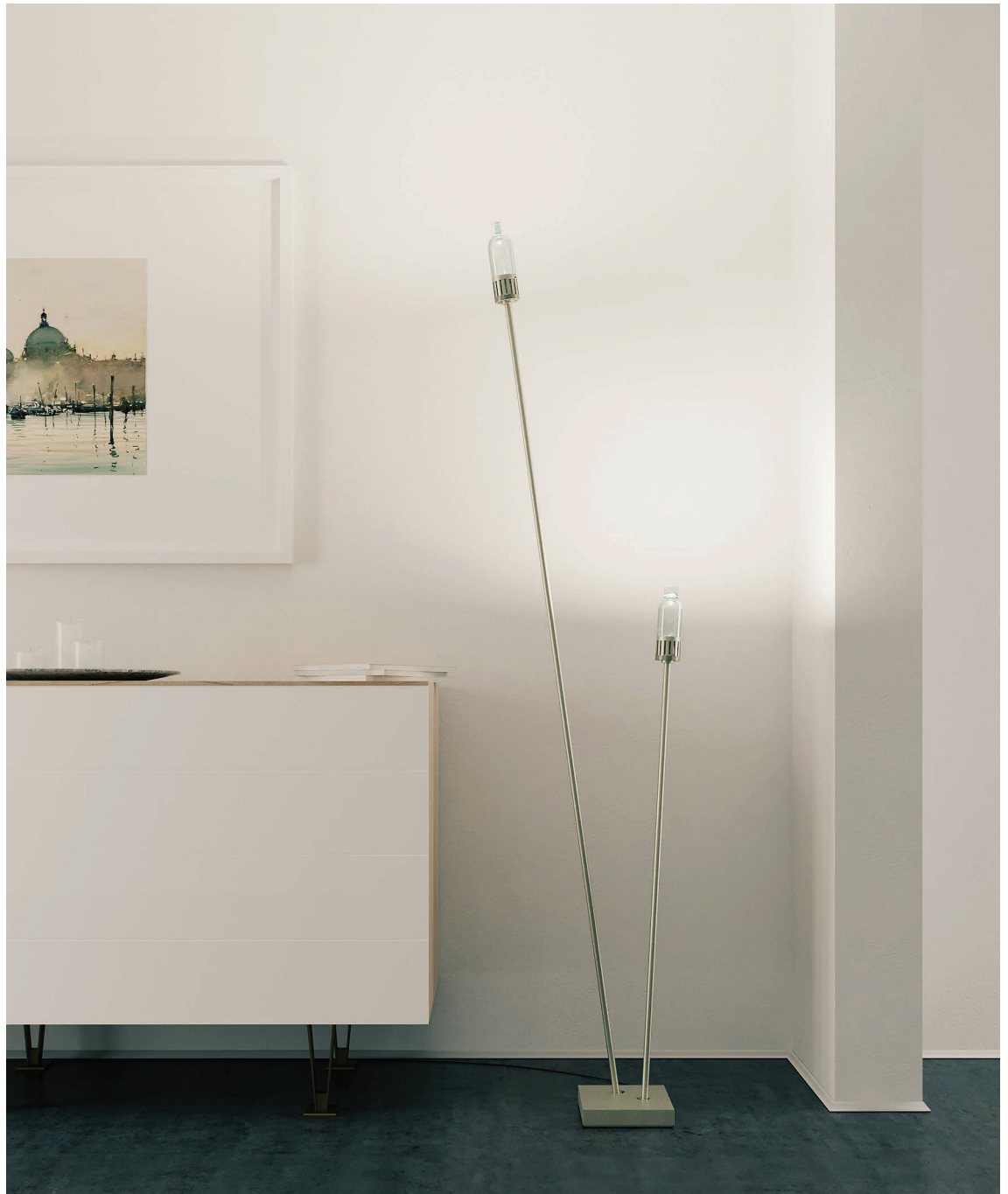
**Via.552.0614** nero55 cristal · crystal 2700K les19 ● n55 10

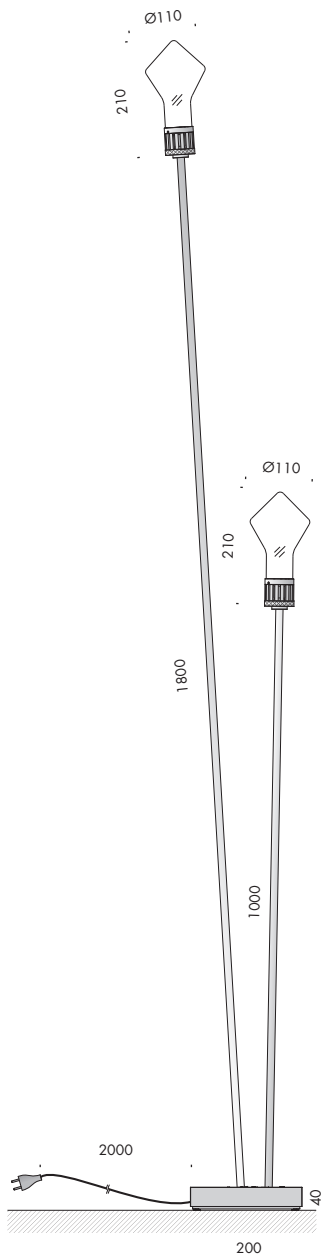
#### h.1800

Ra	R9	ies tm-30		sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

#### h.1000

Ra	R9	ies tm-30		sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	





n55 terra pz03

120-240V 50-60Hz



IP20



pr



UK



Via.552.0616 argento hacca trasparente · transparent 2700K les19 ● n55 10

Via.552.0618 nero55 trasparente · transparent 2700K les19 ● n55 10

#### h.1800

Ra	R9	ies tm-30		sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

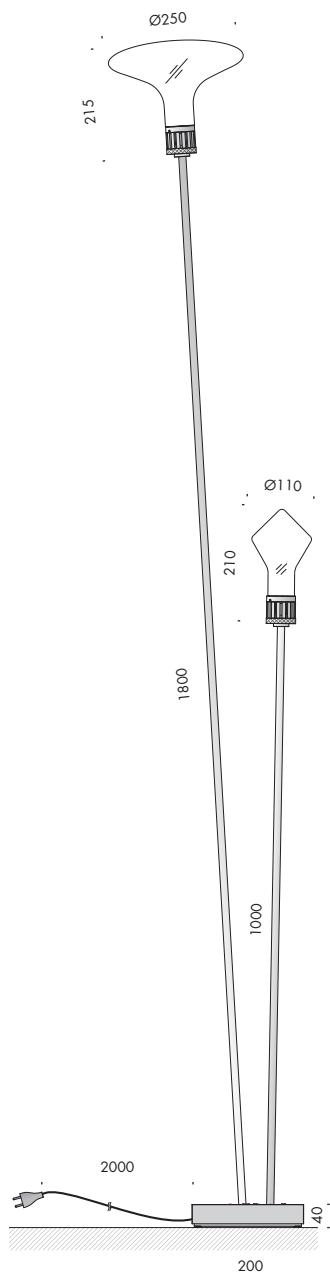
#### h.1000

Ra	R9	ies tm-30		sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

n55 terra pz01 pz03 120-240V 50-60Hz       

**Via.552.0620** argento hacca trasparente · transparent 2700K les19 ● n55 11

**Via.552.0622** nero55 trasparente · transparent 2700K les19 ● n55 11

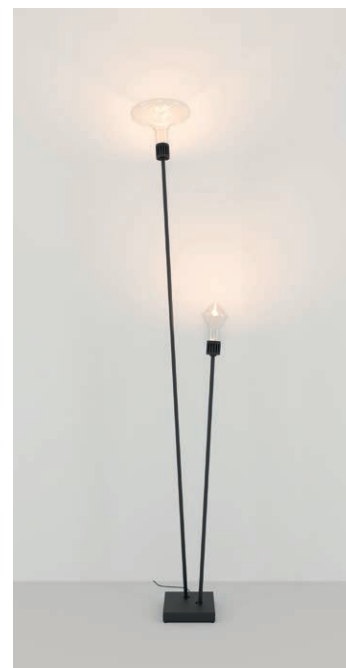


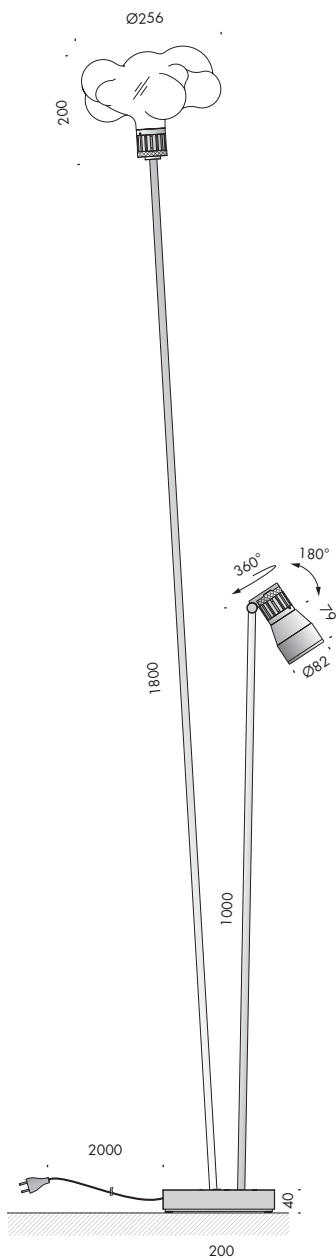
#### h.1800

Ra	R9	ies tm-30		sdcM	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

#### h.1000

Ra	R9	ies tm-30		sdcM	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	





**n55 terra wm01 spot82x79** 120-240V 50-60Hz IP20

**Via.552.0625** argento hacca trasparente · transparent 2700K les19 ● n55 11

**Via.552.0627** nero55 trasparente · transparent 2700K les19 ● n55 11

#### h.1800

Ra	R9	ies tm-30	sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96 Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h		L80 B10		

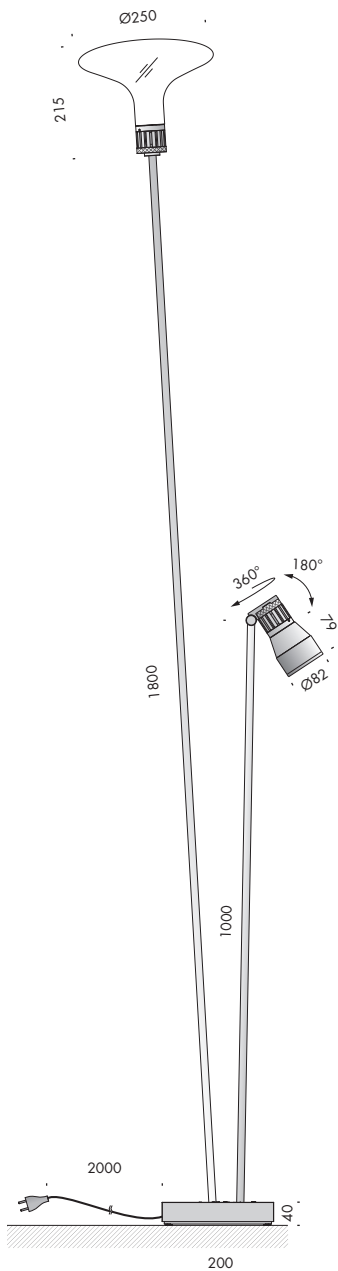
#### h.1000 37°

Ra	R9	ies tm-30	sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96 Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h		L80 B10		


**n55 terra pz01 spot82x79** 120-240V 50-60Hz   IP20    UK CA  CE  i

**Via.552.0629** argento hacca trasparente · transparent 2700K les19  n55 11


**Via.552.0631** nero55 trasparente · transparent 2700K les19  n55 11



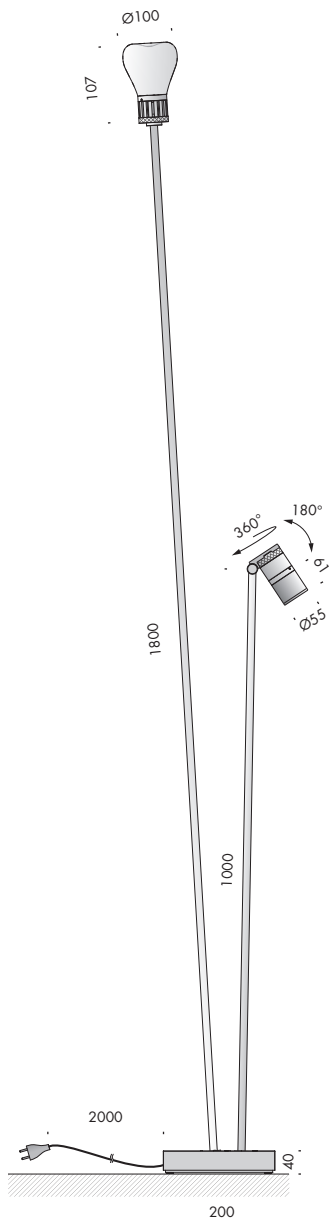
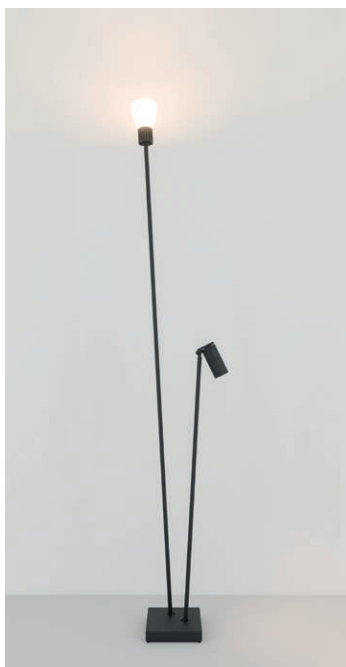
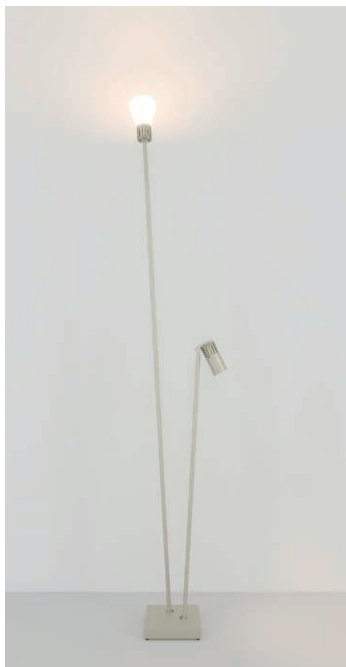
### **h.1800**

Ra	R9	ies tm-30		sdcm	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 	Ta25 °C		vita media · average life		70000 h	L80	B10	

### **h.1000 37°**

Ra	R9	ies tm-30		sdcm	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 	Ta25 °C		vita media · average life		70000 h	L80	B10	





**n55 terra hm02 spot55x61** 120-240V 50-60Hz

**Via.552.0633** argento hacca sabbiato · sanded 2700K les19 ● n55 10

**Via.552.0635** nero55 sabbiato · sanded 2700K les19 ● n55 10

#### h.1800

Ra	R9	ies tm-30	sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96 Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h		L80 B10		

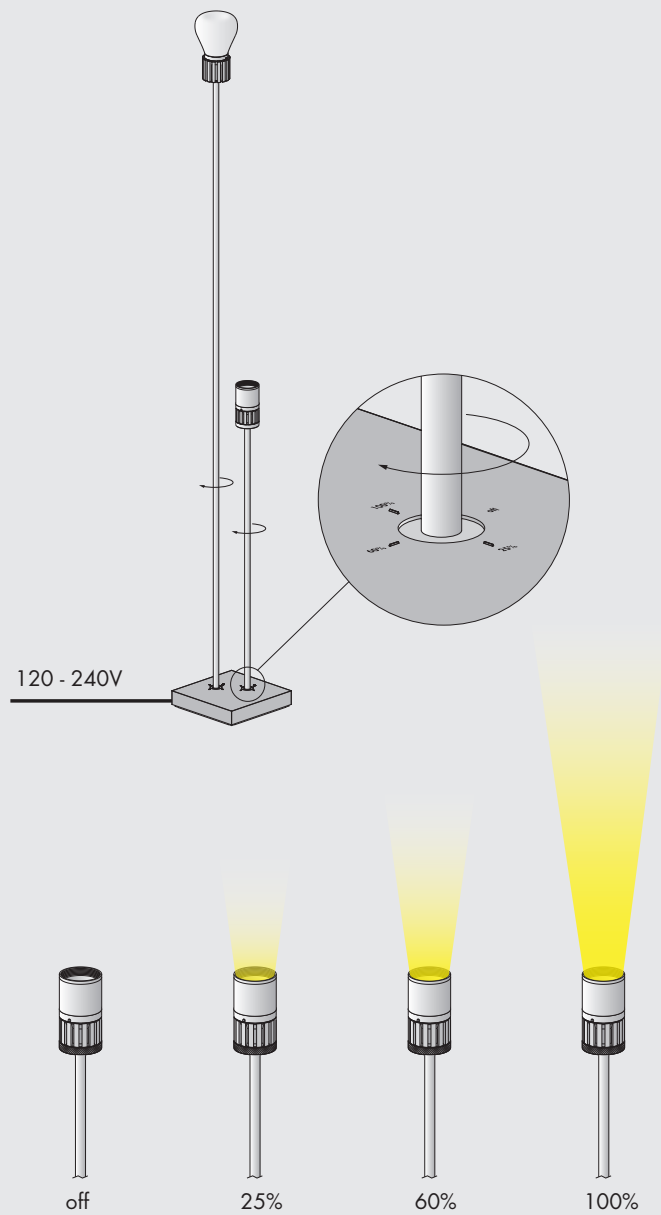
#### h.1000 36°

Ra	R9	ies tm-30	sdc	mA	$V_{f(min)}$	lm	W	lm/W
98	98	Rf 96 Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h		L80 B10		





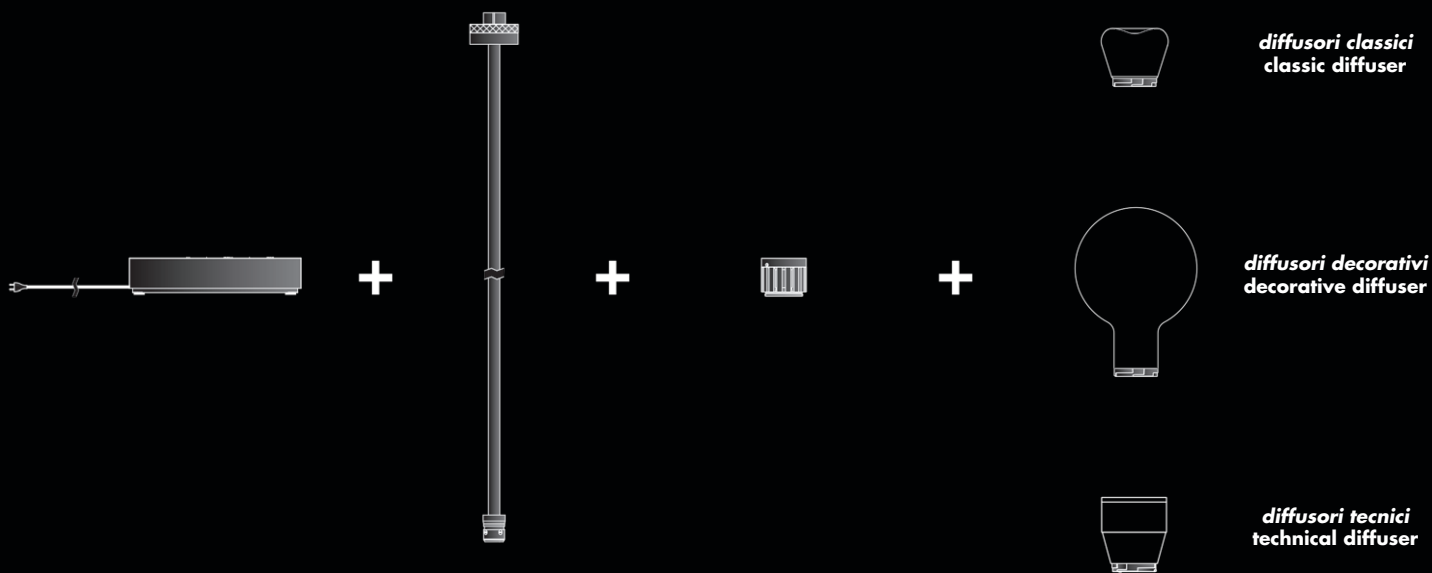
funzionamento dimmerazione · operation dimming n5 terra







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**1. scegli l'interfaccia**  
choose the interface

**2. scegli l'asta**  
choose the rod

**3. scegli il propulsore dinamico n**  
choose the propulsore dinamico n

**4. scegli la tua diffusore classico, decorativo e tecnico**  
choose your classic, decorative and technical diffuser

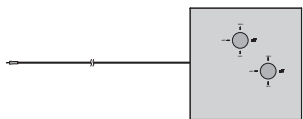
**n55 terra**

**aste  
rods**

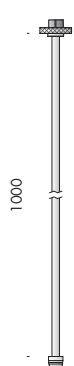
**propulsore dinamico n55**

**diffusore classico  
classic diffuser**

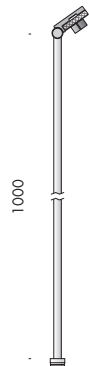
**n55 terra base**  
alimentatore a spina  
plug-in power supply



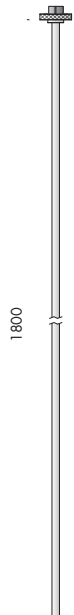
**asta 1000**



**asta 1000 orientabile**



**asta 1800**



**55/350e**

les 19   
350mA  
1240 lm  
9,7W  
128 lm/W



**55/350**

les 19   
350mA  
1240 lm  
9,7W  
128 lm/W



**55/500**

les 19   
500mA  
1580 lm  
14W  
113 lm/W



**55/500**

les 9   
500mA  
800 lm  
13,6W  
59 lm/W



**65/500e**

les 19   
500mA  
1580 lm  
14W  
113 lm/W



**65/700**

les 19   
700mA  
2140 lm  
19,9W  
108 lm/W



**65/700**

les 9   
700mA  
1110 lm  
19,5W  
57 lm/W



**82/1050**

les 19   
1050mA  
3000lm  
30,5W  
98 lm/W



**hm01**

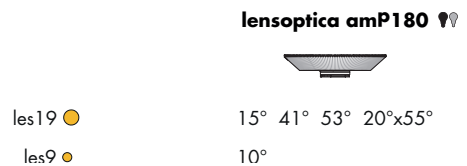
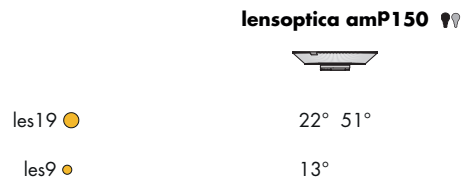
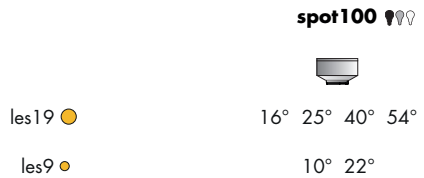
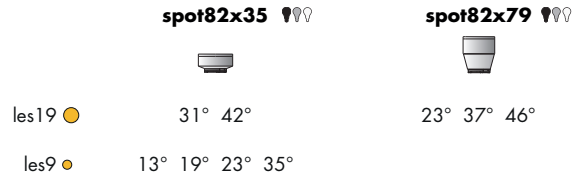
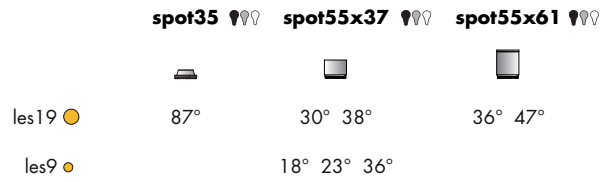
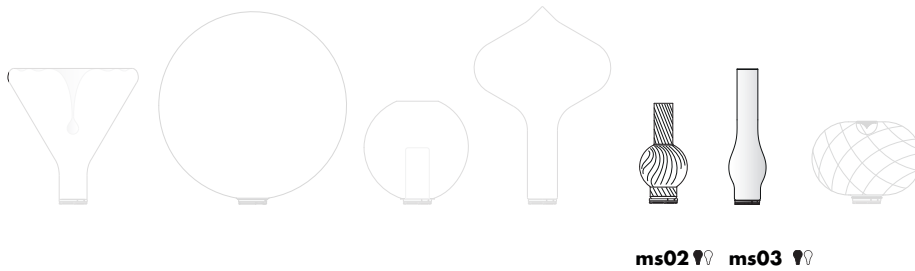
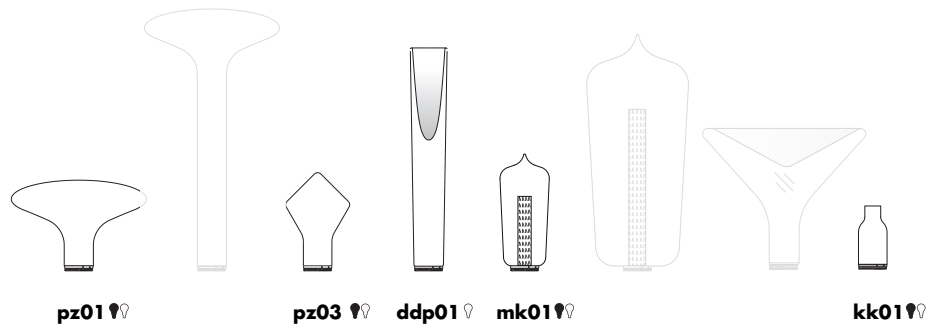
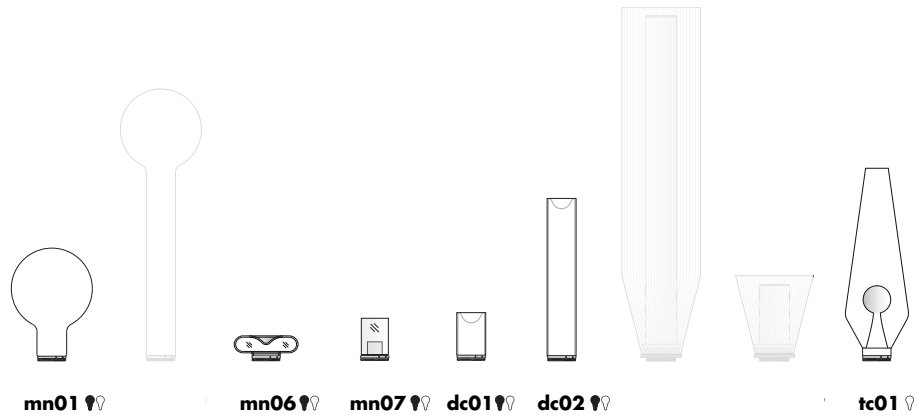


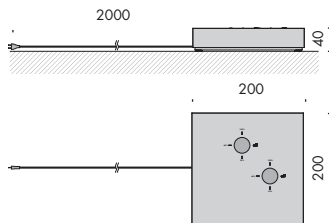
**hm02**



**diffusore decorativo  
decorative diffuser**

**diffusore tecnico  
technical diffuser**

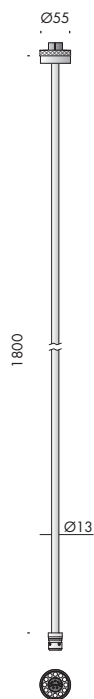




**n55 terra base** 110-240V 50-60Hz

**Vb4.580.01** argento hacca 350÷1050mA 5

**Vb4.580.02** nero55 350÷1050mA 5

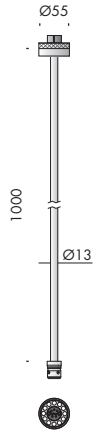


**asta 1800** 48Vdc

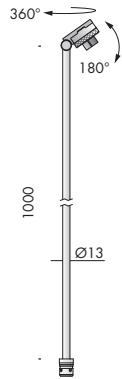
**Vb4.580.03** argento hacca 350÷1050mA n55 0,6

**Vb4.580.04** nero55 350÷1050mA n55 0,6












<b>asta 1000</b>		48Vdc			IP20		CE	
<b>Vb4.580.07</b>	argento hacca	350÷1050mA	n55	0,4				
<b>Vb4.580.08</b>	nero55	350÷1050mA	n55	0,4				



<b>asta 1000 orientabile</b>		48Vdc			IP20		CE	
<b>Vb4.580.11</b>	argento hacca	350÷1050mA	n55	0,5				
<b>Vb4.580.12</b>	nero55	350÷1050mA	n55	0,5				



**propulsore dinamico n55 55/350e**   **IP20**     

**Vb9.580.150.27** argento hacca 2700K les19 ● n55 0,2

**Vb9.580.151.27** nero55 2700K les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.150.30** argento hacca 3000K les19 ● n55 0,2

**Vb9.580.151.30** nero55 3000K les19 ● n55 0,2









Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.150.30v** argento hacca 3000VbK les19 ● n55 0,2

**Vb9.580.151.30v** nero55 3000VbK les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	350	27,6	1240	9,7	128
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	



**propulsore dinamico n55 55/350**   IP20      

**Vb9.580.50.27** argento hacca 2700K les19 ● n55 0,2

**Vb9.580.51.27** nero55 2700K les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19 ● Ta25 °C		vita media · average life			70000 h	L80 B10		

**Vb9.580.50.30** argento hacca 3000K les19 ● n55 0,2

**Vb9.580.51.30** nero55 3000K les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm001	les19 ● Ta25 °C		vita media · average life			70000 h	L80 B10		

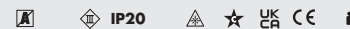
**Vb9.580.50.30v** argento hacca 3000VbK les19 ● n55 0,2

**Vb9.580.51.30v** nero55 3000VbK les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	350	27,6	1240	9,7	128
xm007	les19 ● Ta25 °C		vita media · average life			70000 h	L80 B10		



**propulsore dinamico n55 55/500**



**Vb9.580.62.27** argento hacca 2700K les19 ● n55 0,2

**Vb9.580.63.27** nero55 2700K les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.62.30** argento hacca 3000K les19 ● n55 0,2

**Vb9.580.63.30** nero55 3000K les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.62.30v** argento hacca 3000VbK les19 ● n55 0,2

**Vb9.580.63.30v** nero55 3000VbK les19 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	500	27,9	1580	14,0	113
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	



**Vb9.580.101.27** argento hacca 2700K les9 ● n55 0,2

**Vb9.580.102.27** nero55 2700K les9 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,1	800	13,6	59
xe000	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.101.30** argento hacca 3000K les9 ● n55 0,2

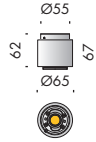
**Vb9.580.102.30** nero55 3000K les9 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,1	800	13,6	59
xe001	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.101.30v** argento hacca 3000VbK les9 ● n55 0,2

**Vb9.580.102.30v** nero55 3000VbK les9 ● n55 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	500	27,1	800	13,6	59
xe007	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	



**propulsore dinamico n55 65/500e**



**Vb9.580.154.27** argento hacca 2700K les19 ● n55 0,3

**Vb9.580.155.27** nero55 2700K les19 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.154.30** argento hacca 3000K les19 ● n55 0,3

**Vb9.580.155.30** nero55 3000K les19 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

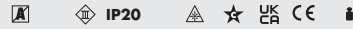
**Vb9.580.154.30v** argento hacca 3000VbK les19 ● n55 0,3

**Vb9.580.155.30v** nero55 3000VbK les19 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	500	27,9	1580	14,0	113
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	



**propulsore dinamico n55 65/700**



**Vb9.580.54.27** argento hacca 2700K les19 ● n55 0,3

**Vb9.580.55.27** nero55 2700K les19 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	700	28,4	2140	19,9	108
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

**Vb9.580.54.30** argento hacca 3000K les19 ● n55 0,3

**Vb9.580.55.30** nero55 3000K les19 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	700	28,4	2140	19,9	108
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

**Vb9.580.54.30v** argento hacca 3000VbK les19 ● n55 0,3

**Vb9.580.55.30v** nero55 3000VbK les19 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	700	28,4	2140	19,9	108
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		



**propulsore dinamico n55 65/700**



**Vb9.580.106.27** argento hacca 2700K les9 ● n55 0,3

**Vb9.580.107.27** nero55 2700K les9 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	700	27,9	1110	19,5	57
xe000	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.106.30** argento hacca 3000K les9 ● n55 0,3

**Vb9.580.107.30** nero55 3000K les9 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	700	27,9	1110	19,5	57
xe001	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	

**Vb9.580.106.30v** argento hacca 3000VbK les9 ● n55 0,3

**Vb9.580.107.30v** nero55 3000VbK les9 ● n55 0,3

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	700	27,9	1110	19,5	57
xe007	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10	





**propulsore dinamico n55 82/1050** IP20

**Vb9.580.58.27** argento hacca 2700K les19 ● n55 0,5

**Vb9.580.59.27** nero55 2700K les19 ● n55 0,5

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	1050	29,0	3000	30,5	98
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

**Vb9.580.58.30** argento hacca 3000K les19 ● n55 0,5

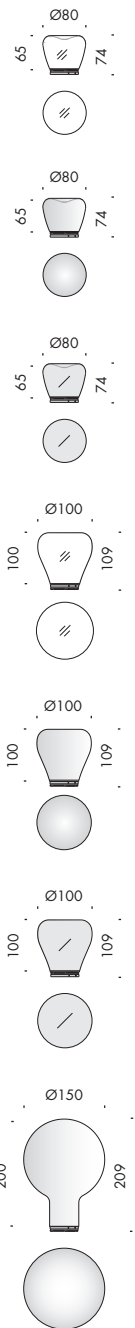
**Vb9.580.59.30** nero55 3000K les19 ● n55 0,5

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	1050	29,0	3000	30,5	98
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

**Vb9.580.58.30v** argento hacca 3000VbK les19 ● n55 0,5

**Vb9.580.59.30v** nero55 3000VbK les19 ● n55 0,5

Ra	R9	ies tm-30		sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	1050	29,0	3000	30,5	98
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		



**marionanni** ★ UK CE i

**Vb9.580.01.t** hm01 trasparente · transparent n55 0,05

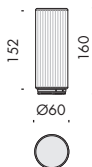
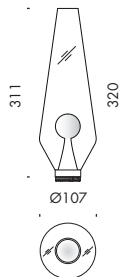
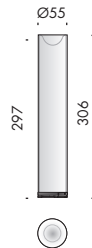
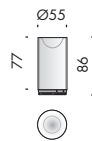
**Vb9.580.01.s** hm01 sabbziata · sanded n55 0,05

**Vb9.580.01.b** hm01 bianco latte · milk white n55 0,05

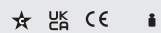
**Vb9.580.02.t** hm02 trasparente · transparent n55 0,1

**Vb9.580.02.s** hm02 sabbziata · sanded n55 0,1

**Vb9.580.02.b** hm02 bianco latte · milk white n55 0,1



**david chipperfield**



**Vb9.580.05.s** dc01 sabbiato · sanded

n55 0,1

**Vb9.580.06.s** dc02 sabbiato · sanded

n55 0,3

**tzach cohen**



**Vb9.580.180.ts** tc01 trasparente, sabbiato · transparent, sanded

n55 0,4

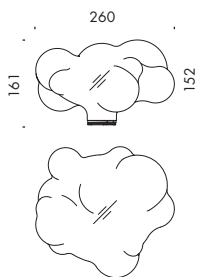
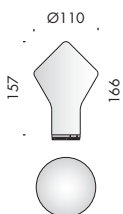
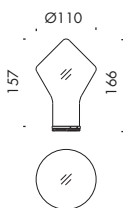
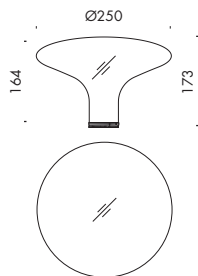
**al-jawad pike**



**Vb9.580.18.tr** ajp01 trasparente, rigato · transparent, striped

n55 0,2





**peter zumthor**



**Vb9.580.08.t** pz01 trasparente · transparent

n55 0,3

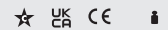
**Vb9.580.11.t** pz03 trasparente · transparent

n55 0,2

**Vb9.580.11.s** pz03 sabbciato · sanded

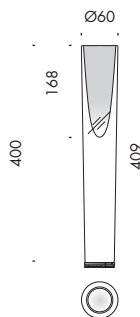
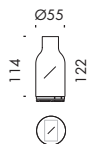
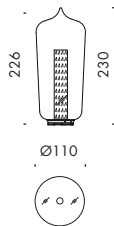
n55 0,2

**winy maas**

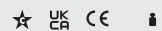


**Vb9.580.09.t** wm01 trasparente · transparent

n55 0,6



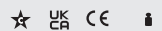
**marcio kogon**



**Vb9.580.111.t** mk01 trasparente · transparent

n55 0,4

**kengo kuma**



**Vb9.580.07.c** kk01 cristallo · crystal

n55 0,3

**domenico de palo**



**Vb9.580.114.t** ddp01 trasparente, sabbiato · transparent, sanded

n55 0,5

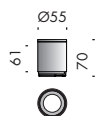
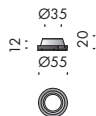
**accessori per diffusore trasparente. transparent bulb accessories.**



**Vb9.580.160** trappola di luce antiabbagliamento nero  
anti-glare black light trap

0,03



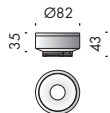


spot35		★	UK	CE	i
<b>Vb9.580.21</b>	argento hacca	87° les19	●	n55	0,1
<b>Vb9.580.22</b>	nero55	87° les19	●	n55	0,1

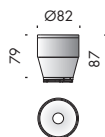
spot55x37		★	UK	CE	i		
<b>Vb9.580.121</b>	argento hacca	18° les9	●	n55	0,1		
<b>Vb9.580.122</b>	nero55	18° les9	●	n55	0,1		
<b>Vb9.580.123</b>	argento hacca	23° les9	●	30° les19	●	n55	0,1
<b>Vb9.580.124</b>	nero55	23° les9	●	30° les19	●	n55	0,1
<b>Vb9.580.125</b>	argento hacca	36° les9	●	38° les19	●	n55	0,1
<b>Vb9.580.126</b>	nero55	36° les9	●	38° les19	●	n55	0,1

spot55x61		★	UK	CE	i
<b>Vb9.580.25</b>	argento hacca	36° les19	●	n55	0,2
<b>Vb9.580.26</b>	nero55	36° les19	●	n55	0,2
<b>Vb9.580.27</b>	argento hacca	47° les19	●	n55	0,2
<b>Vb9.580.28</b>	nero55	47° les19	●	n55	0,2

accessori spot55. accessories.		★	UK	CE	i
<b>Vb9.580.91</b>	frangiluce nido d'ape · honeycomb louvre				0,01
<b>Vb9.580.92</b>	lente ellittica · elliptical lens				0,04



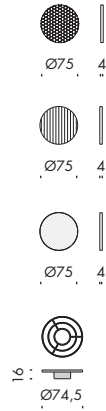
spot82x35			★	UK	CE	i
<b>Vb9.580.131</b>	argento hacca	13° les9 ●			n55	0,1
<b>Vb9.580.132</b>	nero55	13° les9 ●			n55	0,1
<b>Vb9.580.133</b>	argento hacca	19° les9 ●			n55	0,1
<b>Vb9.580.134</b>	nero55	19° les9 ●			n55	0,1
<b>Vb9.580.135</b>	argento hacca	23° les9 ● 31° les19 ●			n55	0,1
<b>Vb9.580.136</b>	nero55	23° les9 ● 31° les19 ●			n55	0,1
<b>Vb9.580.139</b>	argento hacca	35° les9 ● 42° les19 ●			n55	0,1
<b>Vb9.580.140</b>	nero55	35° les9 ● 42° les19 ●			n55	0,1



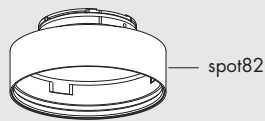
spot82x79			★	UK	CE	i
<b>Vb9.580.31</b>	argento hacca	23° les19 ●			n55	0,2
<b>Vb9.580.32</b>	nero55	23° les19 ●			n55	0,2
<b>Vb9.580.33</b>	argento hacca	37° les19 ●			n55	0,2
<b>Vb9.580.34</b>	nero55	37° les19 ●			n55	0,2
<b>Vb9.580.35</b>	argento hacca	46° les19 ●			n55	0,2
<b>Vb9.580.36</b>	nero55	46° les19 ●			n55	0,2



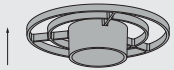
accessori spot82. accessories.



<b>Vb9.580.86</b>	frangiluce nido d'ape · honeycomb louvre	0,01
<b>Vb9.580.87</b>	lente ellittica · elliptical lens	0,05
<b>Vb9.580.88</b>	vetro albarino · albarino glass	0,05
<b>Vb9.580.165</b>	anti abbagliamento · anti-glare	0,03



spot82



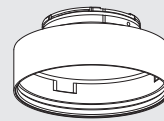
Vb9.580.165



porta accessorio  
accessory holder



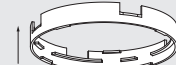
trappola di luce  
light trap



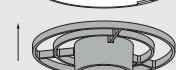
spot82



Vb9.580.88



porta accessorio  
accessory holder

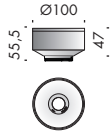


Vb9.580.165

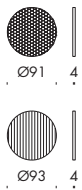


trappola di luce  
light trap



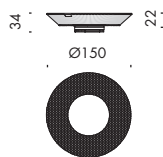


spot100			★	UK	CE	i
<b>Vb9.580.37</b>	argento hacca	10° les9 ● 16° les19 ●	n55	0,1		
<b>Vb9.580.38</b>	nero55	10° les9 ● 16° les19 ●	n55	0,1		
<b>Vb9.580.39</b>	argento hacca	22° les9 ● 25° les19 ●	n55	0,1		
<b>Vb9.580.40</b>	nero55	22° les9 ● 25° les19 ●	n55	0,1		
<b>Vb9.580.41</b>	argento hacca	40° les19 ●	n55	0,1		
<b>Vb9.580.42</b>	nero55	40° les19 ●	n55	0,1		
<b>Vb9.580.43</b>	argento hacca	54° les19 ●	n55	0,1		
<b>Vb9.580.44</b>	nero55	54° les19 ●	n55	0,1		



accessori spot100. accessories.			★	UK	CE	i
<b>Vb9.580.93</b>	frangiluce nido d'ape · honeycomb louvre			0,01		
<b>Vb9.580.94</b>	lente ellittica · elliptical lens			0,05		

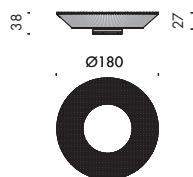




#### lensoptica amP150

★ UK CE i

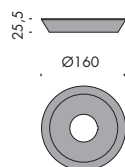
<b>Vb9.518.91</b>	fascio stretto · narrow beam	13° les9 ●	0,3
		22° les19 ●	
<b>Vb9.518.92</b>	fascio largo · wide beam	51° les19 ●	0,3



#### lensoptica amP180

★ UK CE i

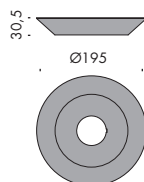
<b>Vb9.518.81</b>	fascio stretto · narrow beam	10° les9 ●	0,6
		15° les19 ●	
<b>Vb9.518.82</b>	fascio medio · medium beam	41° les19 ●	0,6
<b>Vb9.518.83</b>	fascio largo · wide beam	53° les19 ●	0,6
<b>Vb9.518.84</b>	fascio ellittico · elliptical beam	20°x55° les19 ●	0,6



#### riflettore in metallo 150

★ UK CE i

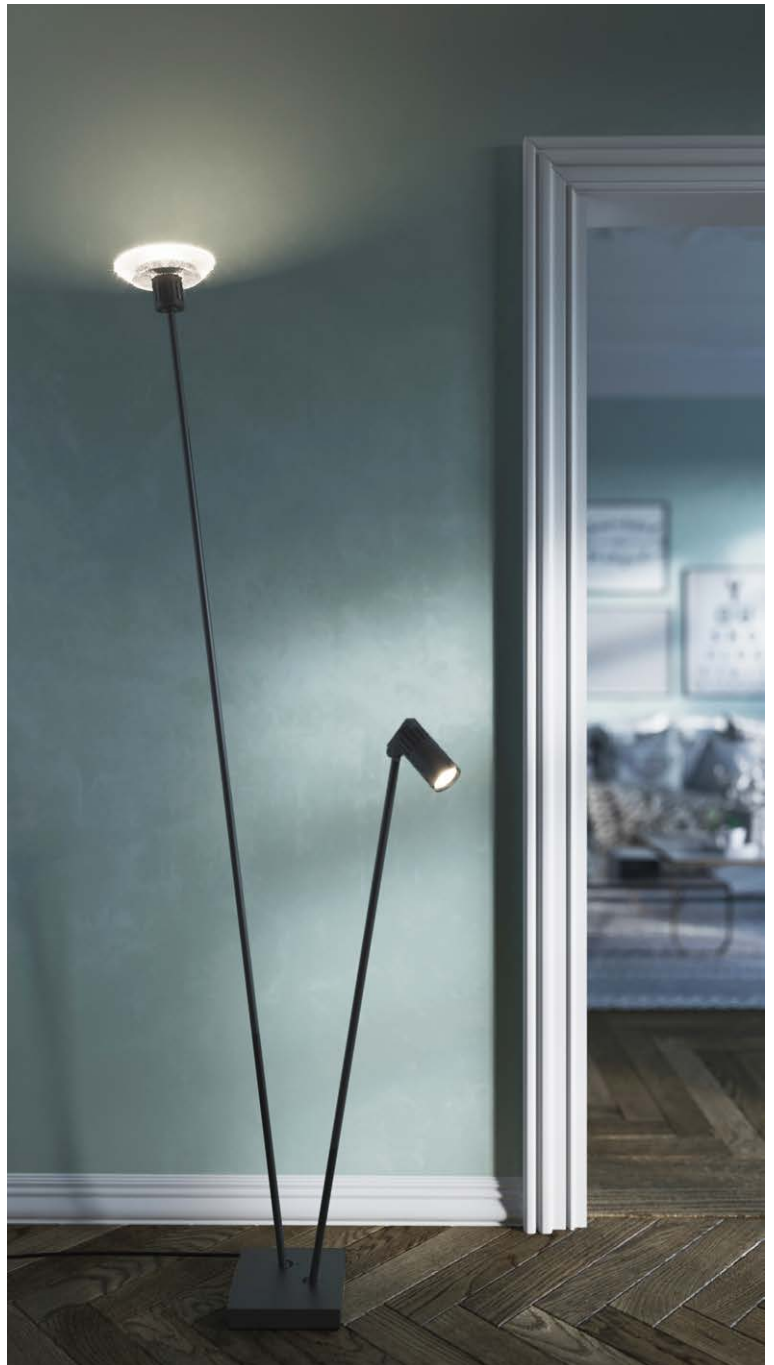
<b>Vb9.518.95.n</b>	nero55		0,1
<b>Vb9.518.95.h</b>	argento hacca		0,1



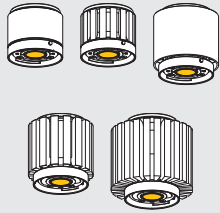
#### riflettore in metallo 180

★ UK CE i

<b>Vb9.518.96.n</b>	nero55		0,1
<b>Vb9.518.96.h</b>	argento hacca		0,1



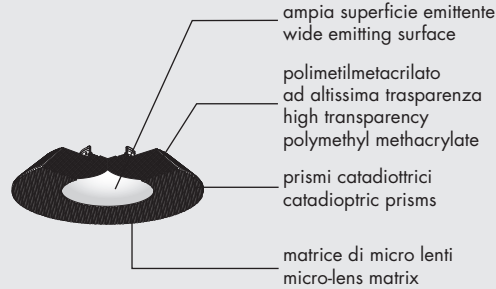
propulsore dinamico n55



riflettore in metallo - metal reflector

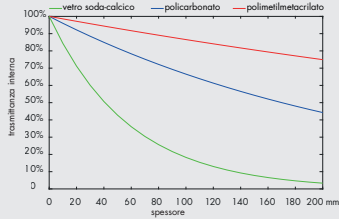


lensoptica amP



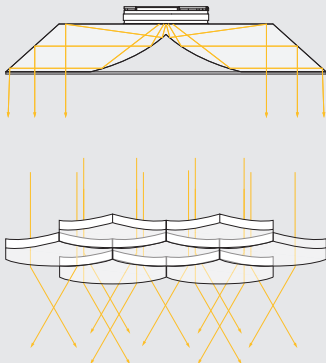
materiale	coefficiente d'assorbimento $\alpha$
vetro soda calcico	0,017 mm <sup>-1</sup>
policarbonato	0,004 mm <sup>-1</sup>
polimetilmetacrilato	0,0014 mm <sup>-1</sup>

la trasmittanza interna (T) di un materiale trasparente è determinata dallo spessore (x) e dal coefficiente d'assorbimento del materiale stesso ( $\alpha$ ) secondo la legge di lambert-beer  $T_{(x)} = e^{-\alpha x}$   
the internal transmittance of a transparent material (T) is determined by the thickness (x) and by the absorbing coefficient of the material itself ( $\alpha$ ) due to lambert-beer law  $T_{(x)} = e^{-\alpha x}$



**lensoptica amP** è allo stesso tempo una lente e un riflettore, perché i raggi di luce subiscono rifrazione e riflessione totale interna. per questa caratteristica tecnica riesce a coniugare alta efficienza e accurato controllo direzionale della luce.

**lensoptica amP** is both a lens and a reflector at the same time, because the rays of light undergo refraction and total internal reflection. for this technical characteristic it combines high efficiency and accurate directional control of light.



la superficie emittente di **lensoptica amP** è dotata di una matrice di microlenti. ogni microlente riceve un fascio collimato e in funzione della curvatura ne allarga l'apertura angolare in modo controllato.

la sovrapposizione dei contributi delle singole microlenti produce una distribuzione d'illuminazione uniforme.

le **lensoptica amP** si suddividono in quattro categorie di apertura angolare del fascio: stretto, medio, largo ed ellittico. il valore esatto dell'angolo dipende dal diametro della sorgente.

**lensoptica amP** emitter surface is equipped with a microlens array. each microlens receives a collimated beam and according to its curvature it enlarges the angular opening in a controlled way.

the overlap of the emissions of each microlens creates a uniform distribution of illumination.

**lensoptica amP** are divided into four categories based on the angular opening of the beam: narrow, medium, wide and elliptical. the exact value of the angle depends on the source diameter.

**lensoptica amP** è il risultato di una ricerca sviluppata da Viabizzuno su progetto david chipperfield architects con lo studio internazionale di ingegneria arup per fornire alle sorgenti luminose elettroniche un'ottica ad alta efficienza in grado di avere sia una luce concentrata che diffusa. l'alta efficienza viene ottenuta utilizzando un materiale ad altissima trasparenza, il polimetilmetacrilato, per mezzo di prismi catadiottrici progettati per riflettere e trasmettere la luce minimizzando le perdite per assorbimento: tali elementi riflettono verso il basso il 90% del flusso luminoso incidente e ne trasmettono il 10% garantendo così una percentuale di emissione indiretta, non ottenibile con il riflettore in metallo.

la matrice di microlenti regola in modo preciso l'ampiezza angolare del fascio luminoso.

l'ampia superficie emittente garantisce un alto comfort visivo e UGR<19.

**lensoptica amP** is the result of a long research and development process made by Viabizzuno on a david chipperfield architects with arup, international engineering studio, design to provide electronic light sources with a high efficiency optics that can have either a focused and a diffuse light.

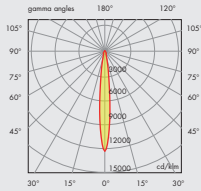
high efficiency is achieved thanks to a very high transparent material, i.e. polymethyl methacrylate, by means of catadioptric prisms specifically designed to reflect and transmit light reducing losses due to absorption: these elements, reflect 90% of the incident light flow downwards and transmit 10% of it, assuring this way a percentage of indirect emission which could not be reached with metal reflector.

the microlens array precisely regulates the angular amplitude of the light beam.

the large emitter surface limits luminance, ensuring high visual comfort and UGR<19.

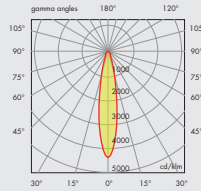
**lensoptica amP150**  
**13° les9**

fascio stretto - narrow beam



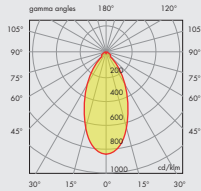
**lensoptica amP150 22°**  
**les19**

fascio stretto - narrow beam



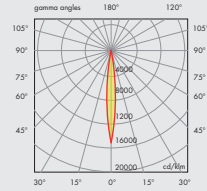
**lensoptica amP150 51°**  
**les19**

fascio largo - wide beam



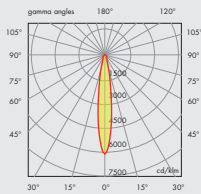
**lensoptica amP180 10°**  
**les9**

fascio stretto - narrow beam



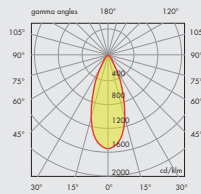
**lensoptica amP180 15°**  
**les19**

fascio stretto - narrow beam



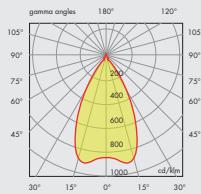
**lensoptica amP180 41°**  
**les19**

fascio medio - medium beam



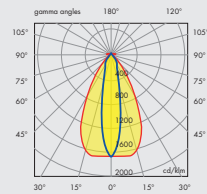
**lensoptica amP180 53°**  
**les19**

fascio largo - wide beam



**lensoptica amP180 20°x55°**  
**les19**

fascio ellittico - elliptical beam



**lensoptica amP150**  
fascio stretto - narrow beam



**lensoptica amP180**  
fascio stretto - narrow beam



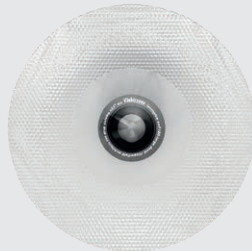
**lensoptica amP180**  
fascio medio - medium beam



**lensoptica amP150**  
fascio largo - wide beam



**lensoptica amP180**  
fascio largo - wide beam



**lensoptica amP180**  
fascio ellittico - elliptical beam



**lensoptica amP**  
installazione - mounting

