



*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 lampadine classiche hm02,*

*n55 terra con lampadine decorative dc02,*

*n55 terra con lampadine decorative kk01,*

*n55 terra con lampadine decorative pz03,*

*n55 terra con lampadine decorative pz01 e pz03,*

*n55 terra con lampadina decorativa wm01 e lampadina tecnica spot82x79,*

*n55 terra con lampadina decorativa pz01 e lampadina tecnica spot82x79,*

*n55 terra con lampadina classica hm02 e lampadina tecnica spot55x61.*

*cablati con propulsore dinamico n55 55/350 les19 9,7W 350mA 1240lm,*

*e 55/500 les19 14W 500mA 1580lm Ra98 1 step macadam.*

*l'apposito attacco n55 permette di intercambiare tre tipi di lampadina: classica, decorativa e tecnica.*

*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.*

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 bulbs,

n55 terra with dc02 decorative bulbs,

n55 terra with kk01 decorative bulbs,

n55 terra with pz03 decorative bulbs,

n55 terra with pz01 e pz03 decorative bulbs,

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 n55 55/350 les19 9.7W 350mA 1240lm,

and 55/500 les19 14W 500mA 1580lm Ra98 1 step macadam.

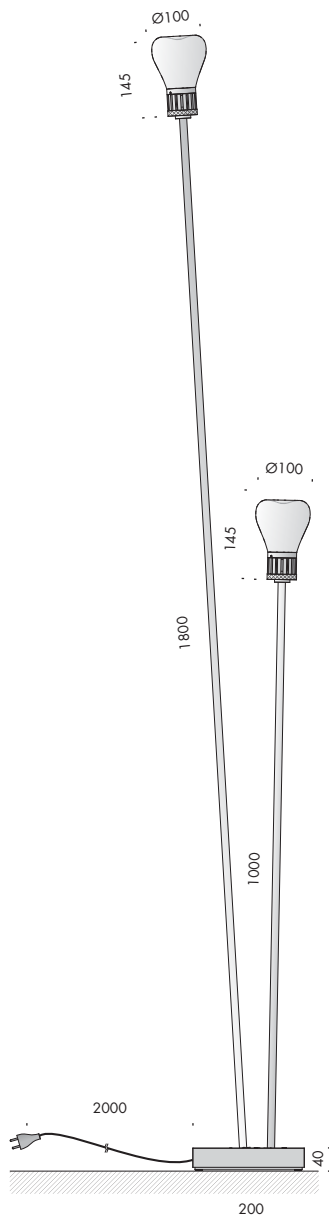
the specific n55 joint allows to change three types of light bulbs: classic, decorative and technical.

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.





**n55 terra hm02**

120-240V 50-60Hz



IP20



**Via.552.0600** argento hacca sabbiato · sanded 2700K les19 ● 10

**Via.552.0602** nero55 sabbiato · sanded 2700K les19 ● 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	<b>A+</b>
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	<b>A++</b>
xm000	les19 ●	Ta25 °C		vita media · average life			70000 h	L80 B10		

n55 terra dc02

120-240V 50-60Hz

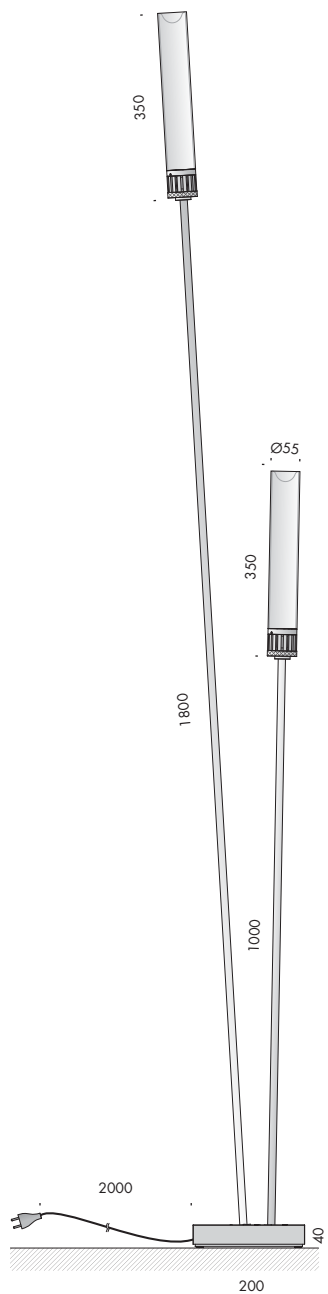


IP20



**Via.552.0604** argento hacca sabbiato · sanded 2700K les19 ● 10

**Via.552.0606** nero55 sabbiato · sanded 2700K les19 ● 10

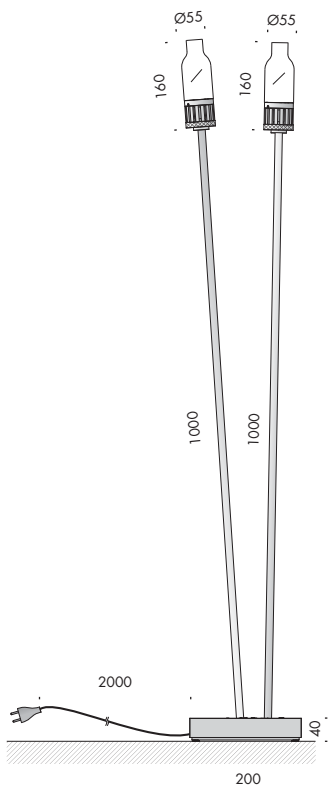


### h.1800

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	<b>A+</b>
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	<b>A++</b>
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h		L80 B10		



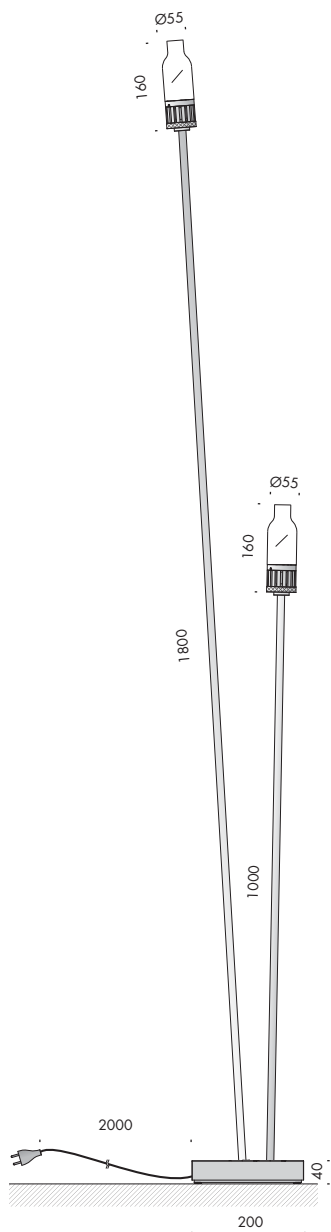
**n55 terra kk01** 120-240V 50-60Hz IP20

**Via.552.0608** argento hacca cristallo · crystal 2700K les19 ● 10  
**Via.552.0612** nero55 cristallo · crystal 2700K les19 ● 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	<b>A++</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			





**n55 terra kk01** 120-240V 50-60Hz **A** **IP20** **PF** **CE** **i**

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

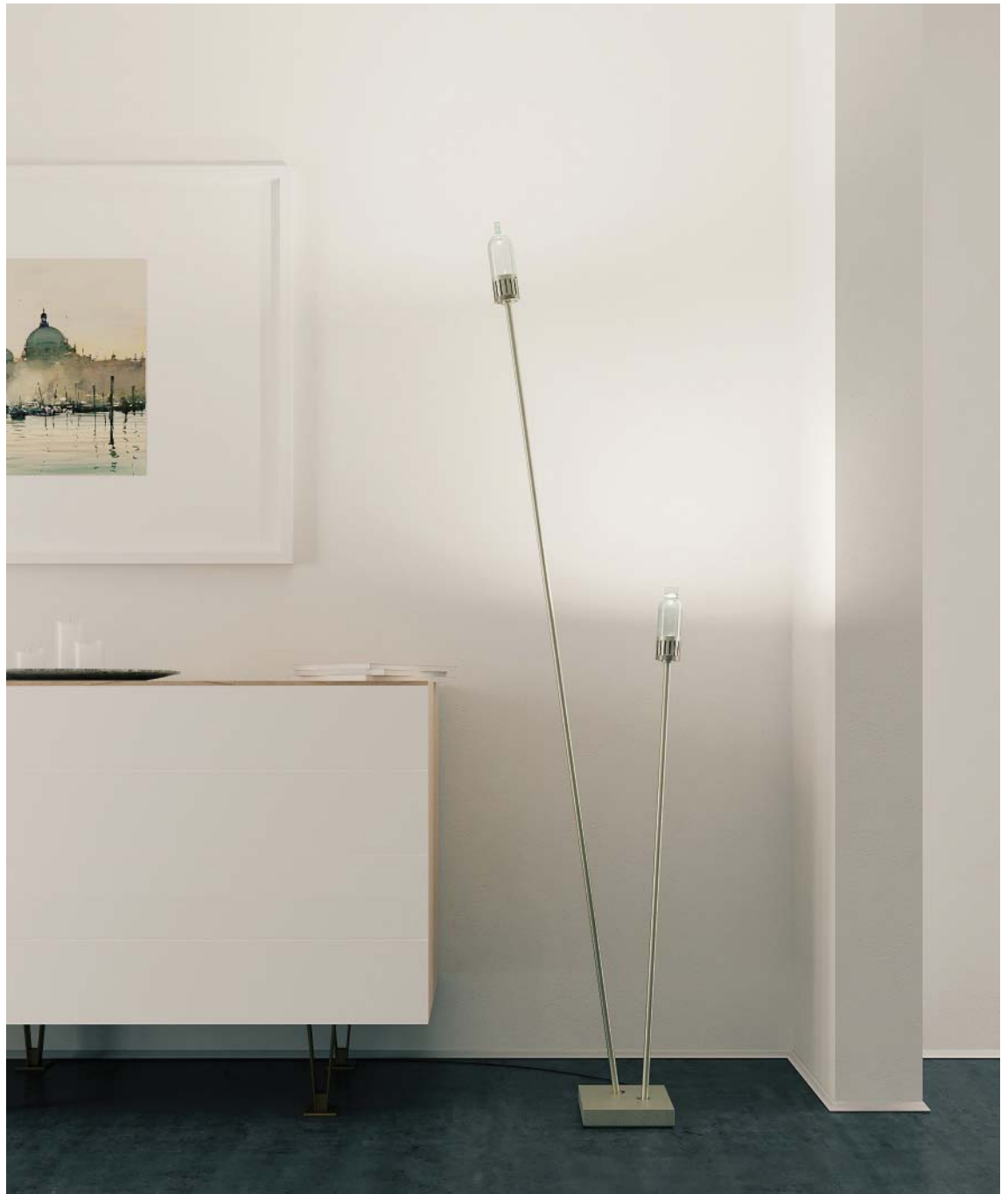
**Via.552.0614** nero55 cristallo · crystal 2700K les19 ● 10

#### h.1800

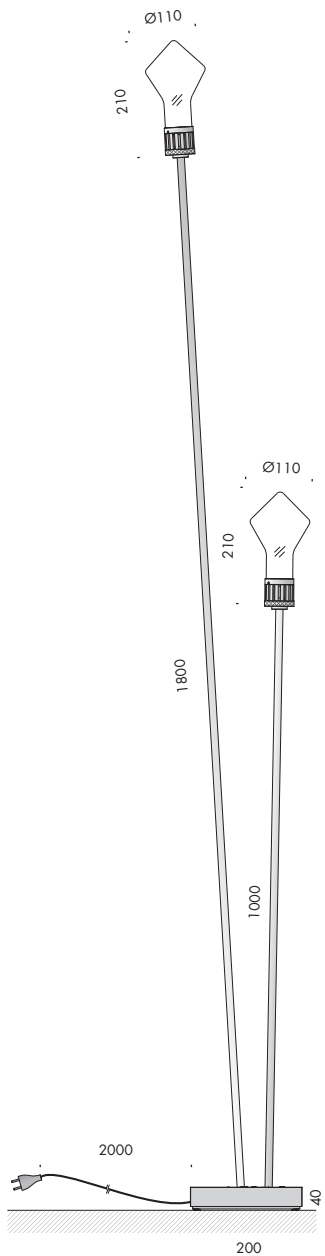
Ra	R9	ies tm-30	sdcn	mA	V <sub>f (min)</sub>	lm	W	lm/W	
98	98	Rf 96 Rg 103	step 1	500	27,9	1580	14,0	113	<b>A+</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			

#### h.1000

Ra	R9	ies tm-30	sdcn	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	<b>A++</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			







n55 terra pz03

120-240V 50-60Hz



IP20



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

Via.552.0618 nero55 trasparente · transparent 2700K les19 ● 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	<b>A+</b>
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h		L80 B10		

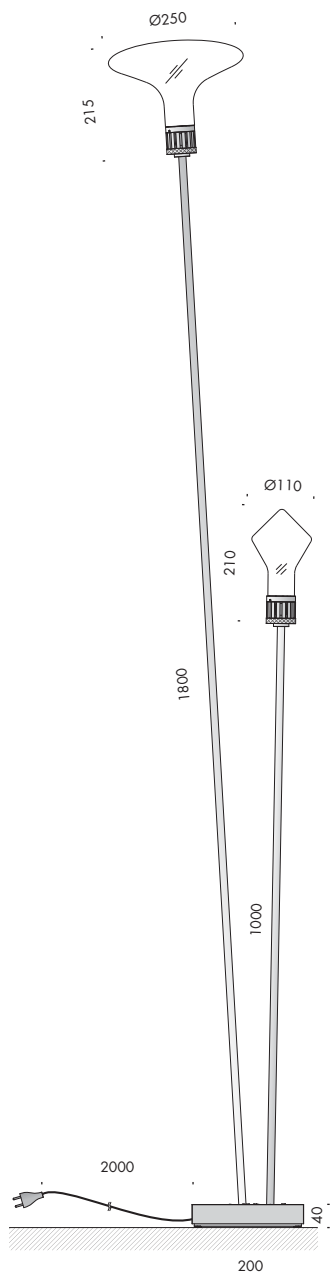
#### h.1000

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	<b>A++</b>
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h		L80 B10		

n55 terra pz01 pz03 120-240V 50-60Hz **A** IP20 **PR** **CE** **i**

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

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



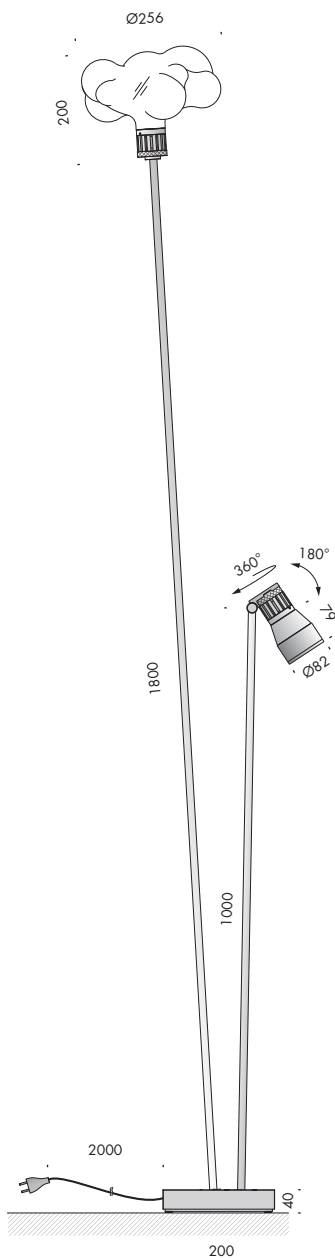
### h.1800







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	<b>A+</b>
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	<b>A++</b>
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 ● 11

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


#### h.1800

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	<b>A+</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			

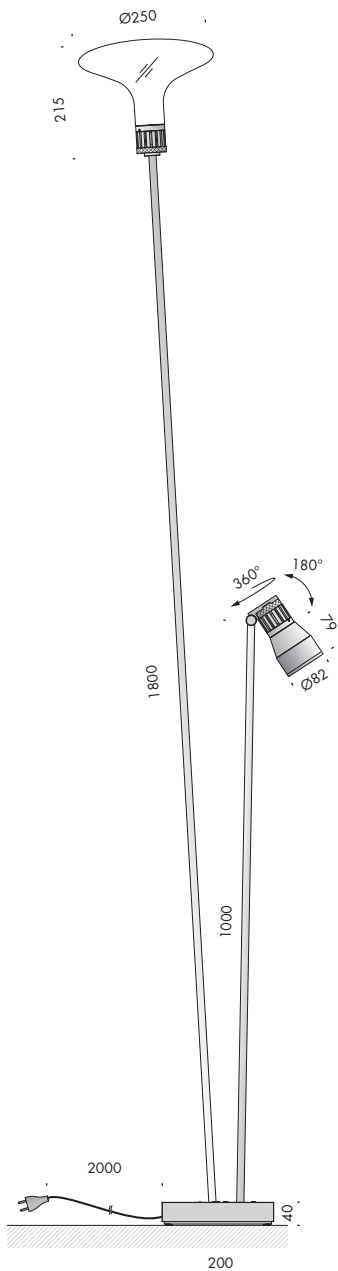
#### h.1000 37°

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	<b>A++</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			



n55 terra pz01 spot82x79 120-240V 50-60Hz   IP20    

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



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

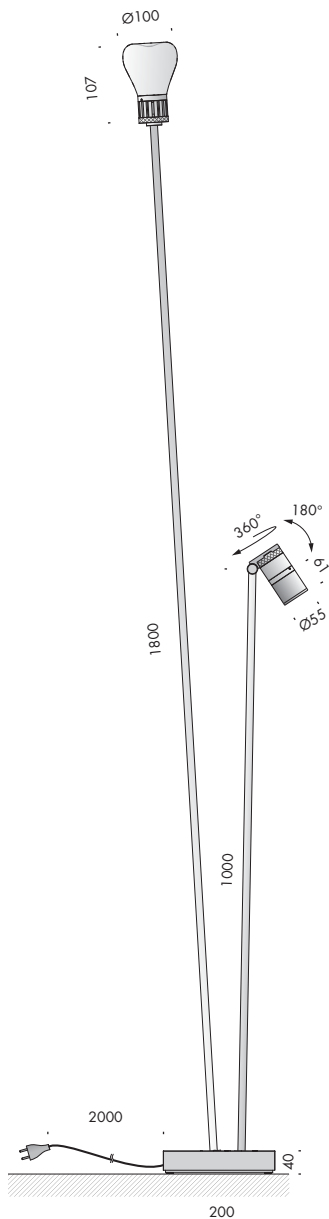
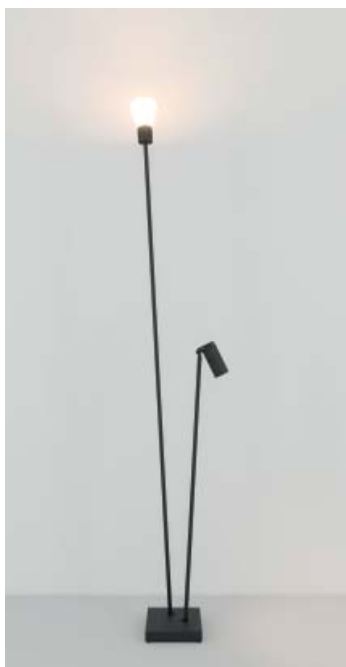


### h.1800

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	<b>A+</b>
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	<b>A++</b>
xm000	les19 	Ta25 °C		vita media · average life		70000 h	L80	B10		



**n55 terra hm02 spot55x61** 120-240V 50-60Hz **A** **IP20** **PR** **CE** **i**

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

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

#### h.1800

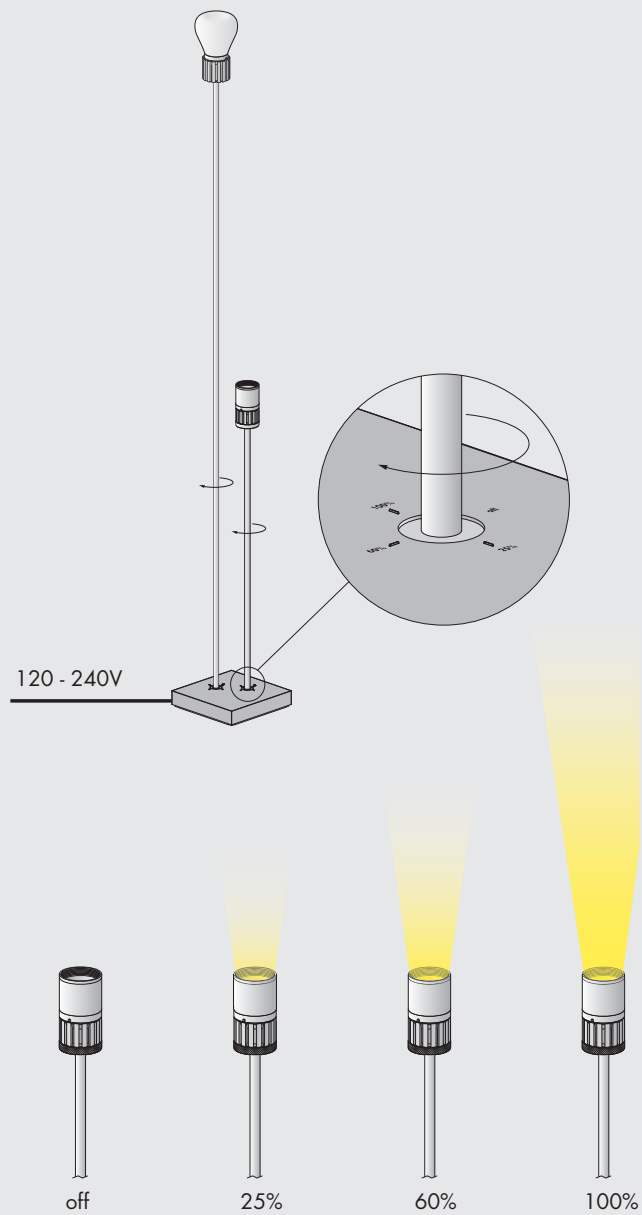
Ra	R9	ies tm-30	sdc	mA	V <sub>f (min)</sub>	lm	W	lm/W	
98	98	Rf 96 Rg 103	step 1	500	27,9	1580	14,0	113	<b>A+</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			

#### h.1000 36°

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	<b>A++</b>
xm000	les19 ●	Ta25 °C	vita media · average life	70000 h	L80	B10			



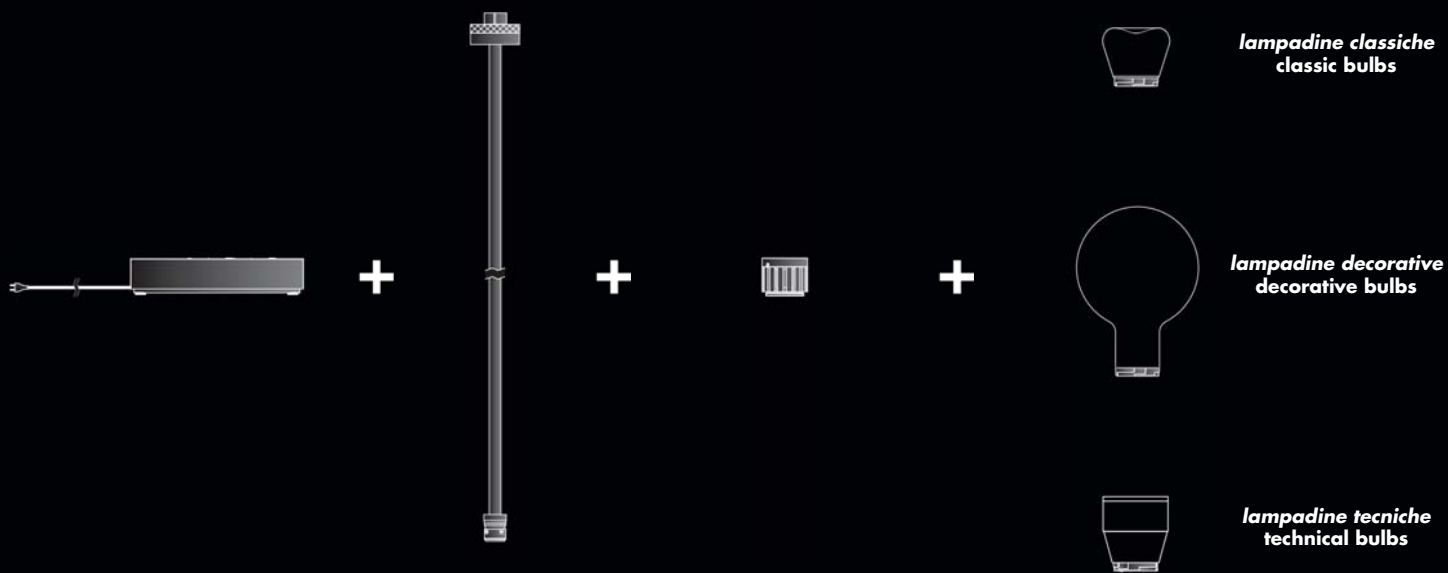
funzionamento dimmerazione · operation dimming n55 terra











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

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

**3. scegli il propulsore dinamico n55**  
choose the propulsore dinamico n55

**4. scegli la tua lampadina classica, decorativa e tecnica**  
choose your classic, decorative and technical bulb

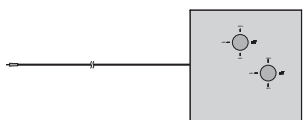
**n55 terra**

**aste rods**

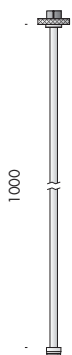
**propulsore dinamico n55**

**lampadina classica classic bulb**

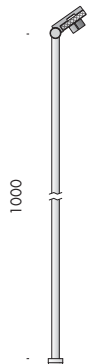
**n55 terra base**  
alimentatore a spina  
plug-in power supply



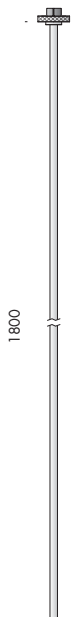
**asta 1000**



**asta 1000 orientabile**



**asta 1800**



**55/350e**

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



**55/350**

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



**55/500**

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



**55/500**

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



**65/500e**

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



**65/700**

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



**65/700**

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



**82/1050**

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



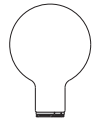
**hm01**



**hm02**



**lampadina decorativa  
decorative bulb**



**mn01** 1 1



**mn02**



**dc01** 1 1 1



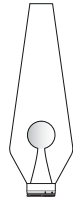
**dc02** 1 1



**dc04**



**dc03**



**tc01** 1 1



**pz01** 1 1



**pz02**



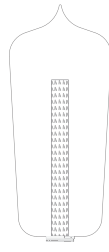
**pz03** 1 1



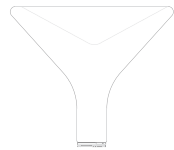
**ddp01** 1 1



**mk01** 1 1



**mk02**



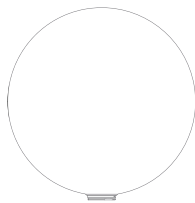
**gt01**



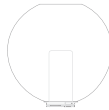
**kk01** 1 1 1



**ml01**



**oma03**



**oma02**



**rdai01**



**ll01**



**wm01** 1 1



**ajp01** 1 1 1



**nh02**



**nh01**

**lampadina tecnica  
technical bulb**

**spot35** 1 1 1



les19 ●

87°

**spot55x37** 1 1 1



les9 ●

30° 38°

18° 23° 36°

**spot55x61** 1 1 1



36° 47°

**spot82x35** 1 1 1



les19 ●

31° 42°

les9 ●

13° 19° 23° 35°

**spot82x79** 1 1 1



23° 37° 46°

**spot100** 1 1 1



les19 ●

16° 25° 40° 54°

les9 ●

10° 22°

**lensoptica amp150** 1 1



les19 ●

22° 51°

les9 ●

13°

**lensoptica amp180** 1 1

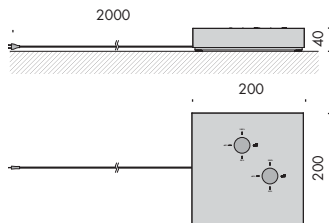


les19 ●

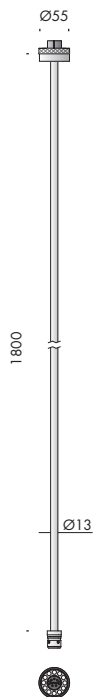
15° 41° 53° 20°x55°

les9 ●

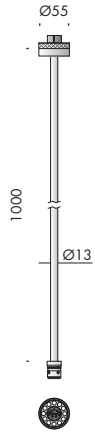
10°



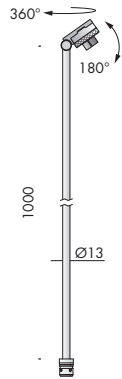
n55 terra base		110-240V 50-60Hz	A	IP20	CE	i
<b>Vb4.580.01</b>	argento hacca	350÷1050mA				5
<b>Vb4.580.02</b>	nero55	350÷1050mA				5



asta 1800		48Vdc	A	IP20	CE	i
<b>Vb4.580.03</b>	argento hacca	350÷1050mA				0,6
<b>Vb4.580.04</b>	nero55	350÷1050mA				0,6



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



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



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

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

**Vb9.580.151.27** nero55 2700K les19 ● 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	<b>A++</b>
xm000	les19 ●	Ta25 °C		vita media · average life			70000 h	L80	B10	

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

**Vb9.580.151.30** nero55 3000K les19 ● 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	<b>A++</b>
xm001	les19 ●	Ta25 °C		vita media · average life			70000 h	L80	B10	

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

**Vb9.580.151.30v** nero55 3000VbK les19 ● 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	<b>A++</b>
xm007	les19 ●	Ta25 °C		vita media · average life			70000 h	L80	B10	



**propulsore dinamico 55/350**   **IP20**     


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

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

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


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

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

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

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

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

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



### propulsore dinamico 55/500



IP20



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

**Vb9.580.63.27** nero55 2700K les19 ● 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	<b>A+</b>
xm000	les19 ●	Ta25 °C		vita media · average life			70000 h	L80 B10		

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

**Vb9.580.63.30** nero55 3000K les19 ● 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	<b>A+</b>
xm001	les19 ●	Ta25 °C		vita media · average life			70000 h	L80 B10		

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

**Vb9.580.63.30v** nero55 3000VbK les19 ● 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	<b>A+</b>
xm007	les19 ●	Ta25 °C		vita media · average life			70000 h	L80 B10		





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

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

Ra	R9	ies tm-30		sdc	mA	V <sub>f</sub> (min)	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	500	27,1	800	13,6	59	<b>A</b>
xe000	les9 ●	Ta25 °C		vita media · average life			70000 h	180	B10	

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

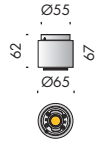
**Vb9.580.102.30** nero55 3000K les9 ● 0,2

Ra	R9	ies tm-30		sdc	mA	V <sub>f</sub> (min)	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	500	27,1	800	13,6	59	<b>A</b>
xe001	les9 ●	Ta25 °C		vita media · average life			70000 h	180	B10	

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

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

Ra	R9	ies tm-30		sdc	mA	V <sub>f</sub> (min)	lm	W	lm/W	
98	98	Rf 93	Rg 106	step 1	500	27,1	800	13,6	59	<b>A</b>
xe007	les9 ●	Ta25 °C		vita media · average life			70000 h	180	B10	


**propulsore dinamico 65/500e**

**IP20**

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

**Vb9.580.155.27** nero55 2700K les19 ● 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	<b>A+</b>
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10		

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

**Vb9.580.155.30** nero55 3000K les19 ● 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	<b>A+</b>
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10		

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


**Vb9.580.155.30v** nero55 3000VbK les19 ● 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	<b>A+</b>
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80	B10		




**propulsore dinamico 65/700**   **IP20**     


<b>Vb9.580.54.27</b>	argento hacca	2700K	les19 ●	0,3
<b>Vb9.580.55.27</b>	nero55	2700K	les19 ●	0,3

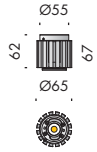
Ra	R9	ies tm-30		sdc	mA	V <sub>f</sub> (min)	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	700	28,4	2140	19,9	108	<b>A+</b>
xm000	les19 ●	Ta25 °C		vita media · average life			70000 h	L80	B10	

<b>Vb9.580.54.30</b>	argento hacca	3000K	les19 ●	0,3
<b>Vb9.580.55.30</b>	nero55	3000K	les19 ●	0,3

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

<b>Vb9.580.54.30v</b>	argento hacca	3000VbK	les19 ●	0,3
<b>Vb9.580.55.30v</b>	nero55	3000VbK	les19 ●	0,3

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


**propulsore dinamico 65/700**

**IP20**

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

**Vb9.580.107.27** nero55 2700K les9 ● 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	<b>A</b>
xe000	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10		

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

**Vb9.580.107.30** nero55 3000K les9 ● 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	<b>A</b>
xe001	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10		

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

**Vb9.580.107.30v** nero55 3000VbK les9 ● 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	<b>A</b>
xe007	les9 ●	Ta25 °C		vita media · average life		70000 h	L80	B10		


**propulsore dinamico 82/1050**

**IP20**

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

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

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

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

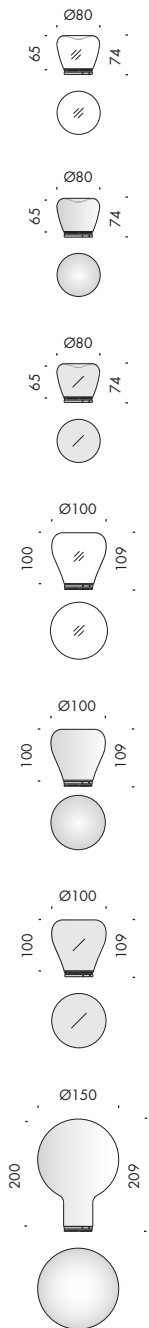
**Vb9.580.59.30** nero55 3000K les19 ● 0,5

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

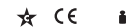
**Vb9.580.58.30v** argento hacca 3000VbK les19 ● 0,5

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

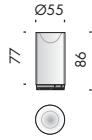
Ra	R9	ies tm-30		sdc	mA	V <sub>f</sub> (min)	lm	W	lm/W	
98	98	Rf 93	Rg 106	step 1	1050	29,0	3000	30,5	98	<b>A+</b>
xm007	les19 ●	Ta25 °C		vita media · average life			70000 h	L80	B10	



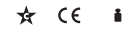
mario nanni



<b>Vb9.580.01.t</b>	hm01 trasparente · transparent	0,05
<b>Vb9.580.01.s</b>	hm01 sabbiata · sanded	0,05
<b>Vb9.580.01.b</b>	hm01 bianco latte · milk white	0,05
<b>Vb9.580.02.t</b>	hm02 trasparente · transparent	0,1
<b>Vb9.580.02.s</b>	hm02 sabbiata · sanded	0,1
<b>Vb9.580.02.b</b>	hm02 bianco latte · milk white	0,1
<b>Vb9.580.03.s</b>	mn01 sabbiato · sanded	0,3



**david chipperfield**



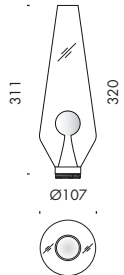
**Vb9.580.05.s** dc01 sabbaiato · sanded

0,1



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

0,3

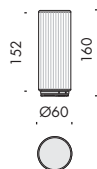


**tzach cohen**



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

0,4



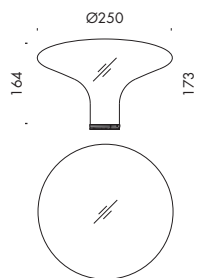
**al-jawad pike**



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

0,2



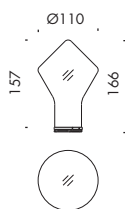


**peter zumthor**



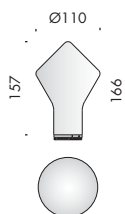
**Vb9.580.08.t** pz01 trasparente · transparent

0,3



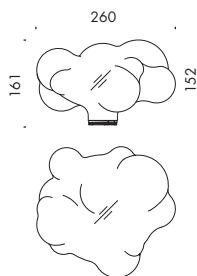
**Vb9.580.11.t** pz03 trasparente · transparent

0,2



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

0,2



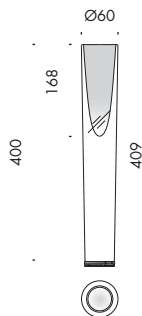
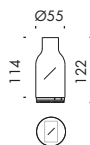
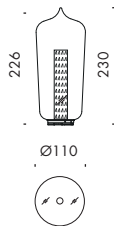
**winy maas**



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

0,6





**marcio kogon**



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

0,4

**kengo kuma**



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

0,3

**domenico de palo**



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

0,5

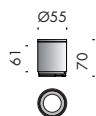
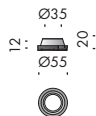
**accessori per lampadina trasparente. transparent bulb accessories.**



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

0,03



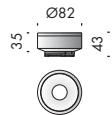


spot35		★	CE	i
<b>Vb9.580.21</b>	argento hacca	87° les19	●	0,1
<b>Vb9.580.22</b>	nero55	87° les19	●	0,1

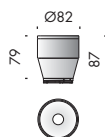
spot55x37		★	CE	i		
<b>Vb9.580.121</b>	argento hacca	18° les9	●	0,1		
<b>Vb9.580.122</b>	nero55	18° les9	●	0,1		
<b>Vb9.580.123</b>	argento hacca	23° les9	●	30° les19	●	0,1
<b>Vb9.580.124</b>	nero55	23° les9	●	30° les19	●	0,1
<b>Vb9.580.125</b>	argento hacca	36° les9	●	38° les19	●	0,1
<b>Vb9.580.126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

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

accessori spot55. accessories.		★	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



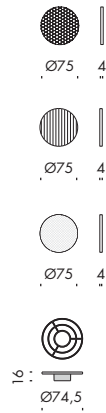
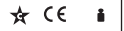
spot82x35		★	CE	i
<b>Vb9.580.131</b>	argento hacca	13° les9 ●		0,1
<b>Vb9.580.132</b>	nero55	13° les9 ●		0,1
<b>Vb9.580.133</b>	argento hacca	19° les9 ●		0,1
<b>Vb9.580.134</b>	nero55	19° les9 ●		0,1
<b>Vb9.580.135</b>	argento hacca	23° les9 ●	31° les19 ●	0,1
<b>Vb9.580.136</b>	nero55	23° les9 ●	31°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



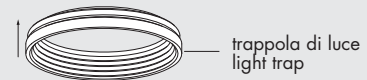
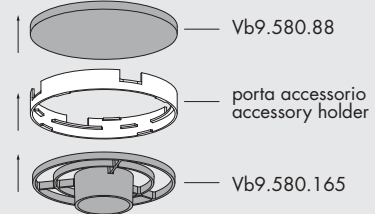
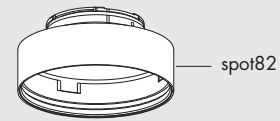
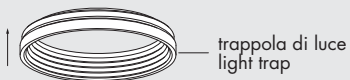
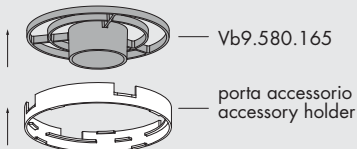
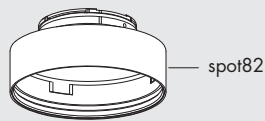
spot82x79		★	CE	i
<b>Vb9.580.31</b>	argento hacca	23° les19 ●		0,2
<b>Vb9.580.32</b>	nero55	23° les19 ●		0,2
<b>Vb9.580.33</b>	argento hacca	37° les19 ●		0,2
<b>Vb9.580.34</b>	nero55	37° les19 ●		0,2
<b>Vb9.580.35</b>	argento hacca	46° les19 ●		0,2
<b>Vb9.580.36</b>	nero55	46° les19 ●		0,2

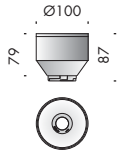


accessori spot82. accessories.

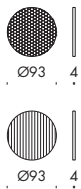


<b>Vb9.580.86</b>	frangiluce nido d'ape · honeycomb louvre	0,01
<b>Vb9.580.87</b>	lente ellittica · elliptical lens	0,05
<b>Vb9.580.88</b>	vetro albarino · albarino glass	0,05
<b>Vb9.580.165</b>	anti abbagliamento · anti-glare	0,03



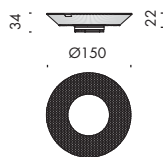


spot100		☆	CE	i
<b>Vb9.580.37</b>	argento hacca	10° les9 ●	16° les19 ●	0,1
<b>Vb9.580.38</b>	nero55	10° les9 ●	16° les19 ●	0,1
<b>Vb9.580.39</b>	argento hacca	22° les9 ●	25° les19 ●	0,1
<b>Vb9.580.40</b>	nero55	22° les9 ●	25° les19 ●	0,1
<b>Vb9.580.41</b>	argento hacca		40° les19 ●	0,1
<b>Vb9.580.42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



accessori spot100. accessories.		☆	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

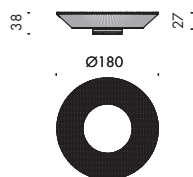




#### lensoptica amP150

★ CE ⓘ

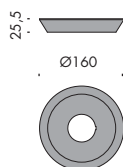
<b>Vb9.518.91</b>	fascio stretto · narrow beam	13° les9 ●	0,3
		22° les19 ●	
<b>Vb9.518.92</b>	fascio largo · wide beam	51° les19 ●	0,3



#### lensoptica amP180

★ CE ⓘ

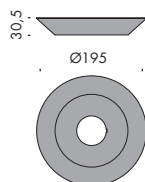
<b>Vb9.518.81</b>	fascio stretto · narrow beam	10° les9 ●	0,6
		15° les19 ●	
<b>Vb9.518.82</b>	fascio medio · medium beam	41° les19 ●	0,6
<b>Vb9.518.83</b>	fascio largo · wide beam	53° les19 ●	0,6
<b>Vb9.518.84</b>	fascio ellittico · elliptical beam	20°x55° les19 ●	0,6



#### riflettore in metallo 150

★ CE ⓘ

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

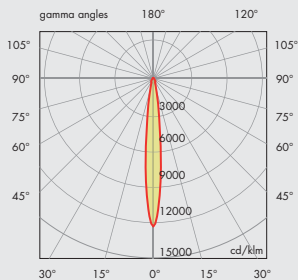


#### riflettore in metallo 180

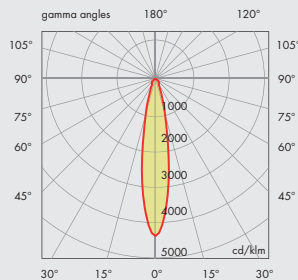
★ CE ⓘ

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

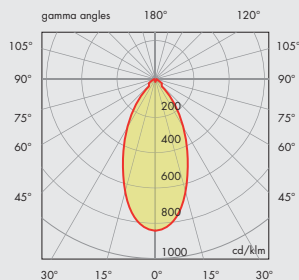
**lensoptica amP150 13° les9**  
fascio stretto · narrow beam



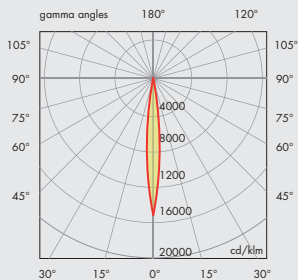
**lensoptica amP150 22° les19**  
fascio stretto · narrow beam



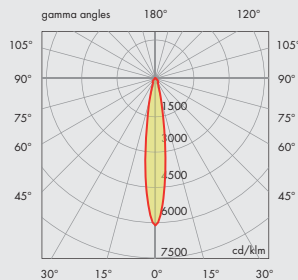
**lensoptica amP150 51° les19**  
fascio largo · wide beam



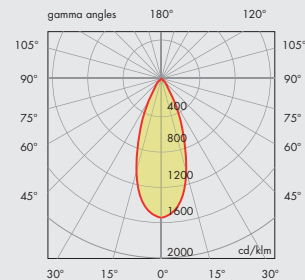
**lensoptica amP180 10° les9**  
fascio stretto · narrow beam



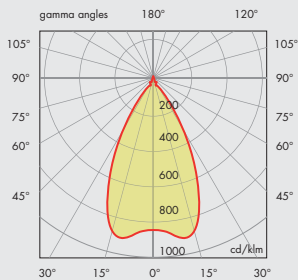
**lensoptica amP180 15° les19**  
fascio stretto · narrow beam



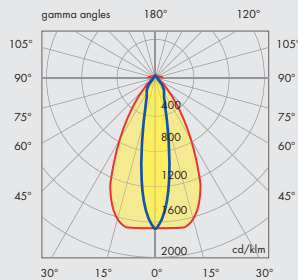
**lensoptica amP180 41° les19**  
fascio medio · medium beam



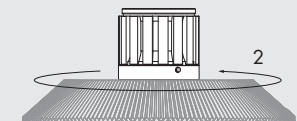
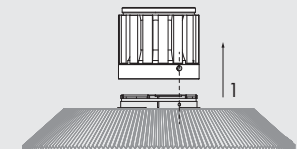
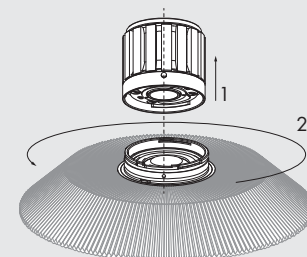
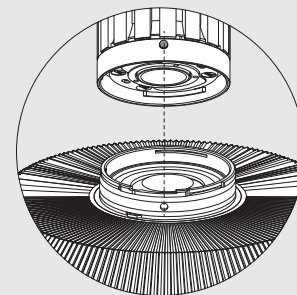
**lensoptica amP180 53° les19**  
fascio largo · wide beam



**lensoptica amP180 20°x55° les19**  
fascio ellittico · elliptical beam



**lensoptica amP**  
installazione · mounting





**lensoptica amP150**  
fascio stretto · narrow beam



**lensoptica amP150**  
fascio largo · wide beam





**lensoptica amP180**  
fascio stretto · narrow beam



**lensoptica amP180**  
fascio medio · medium beam



**lensoptica amP180**  
fascio largo · wide beam



**lensoptica amP180**  
fascio ellittico · elliptical beam

**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.

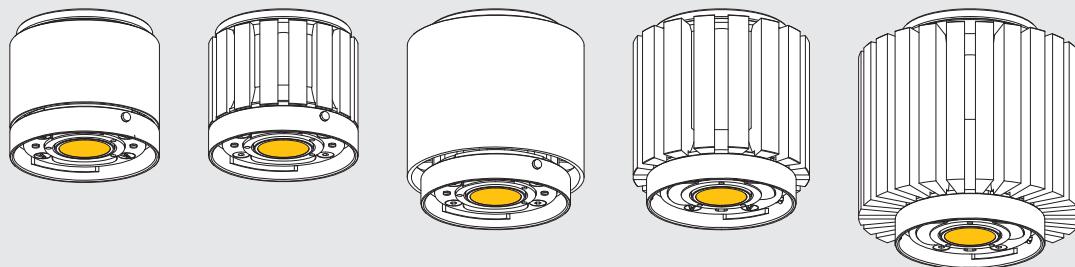
**lensoptica amP** is the result of a long research and development process made by Viabizzuno on a david chipperfield architects with arup, international engineering studio, design to provide electronic light sources with a high efficiency optics that can have either a focused and a diffuse light.

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.

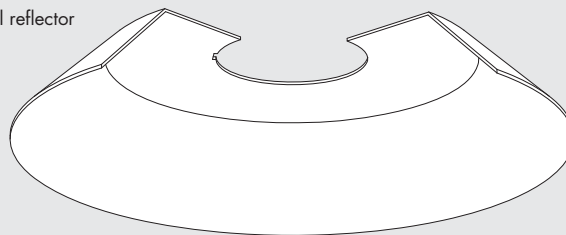
the microlens array precisely regulates the angular amplitude of the light beam.

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

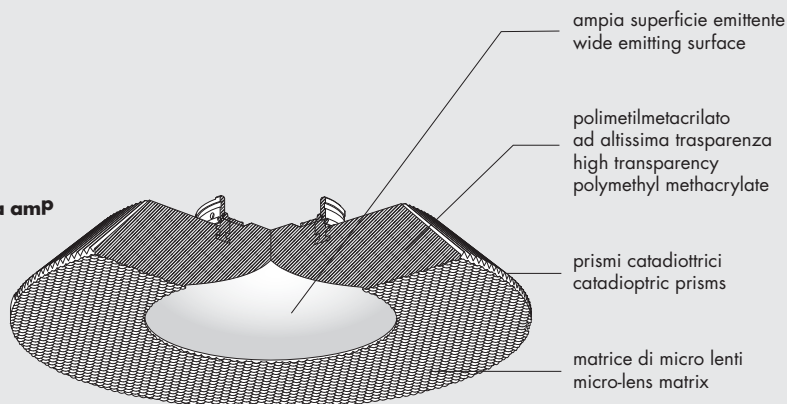
propulsore dinamico n55

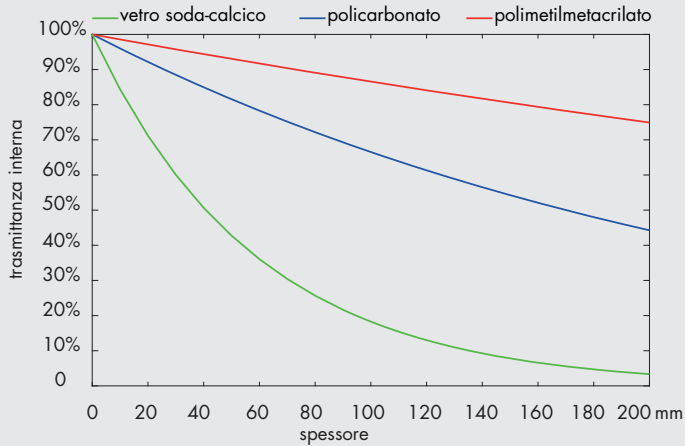


riflettore in metallo · metal reflector



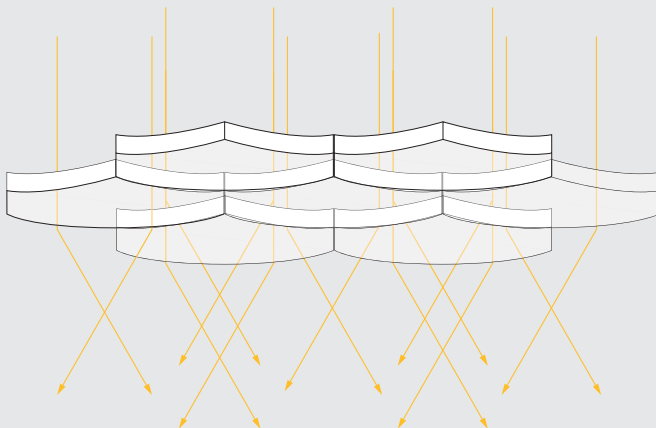
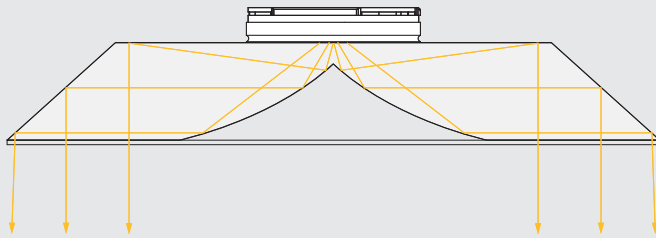
**lensoptica amP**





la trasmittanza interna (T) di un materiale trasparente è determinata dallo spessore (x) e dal coefficiente d'assorbimento del materiale stesso (α) 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 (α) due to Lambert-Beer law  $T_{(x)} = e^{-\alpha x}$

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



**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'illuminamento uniforme.

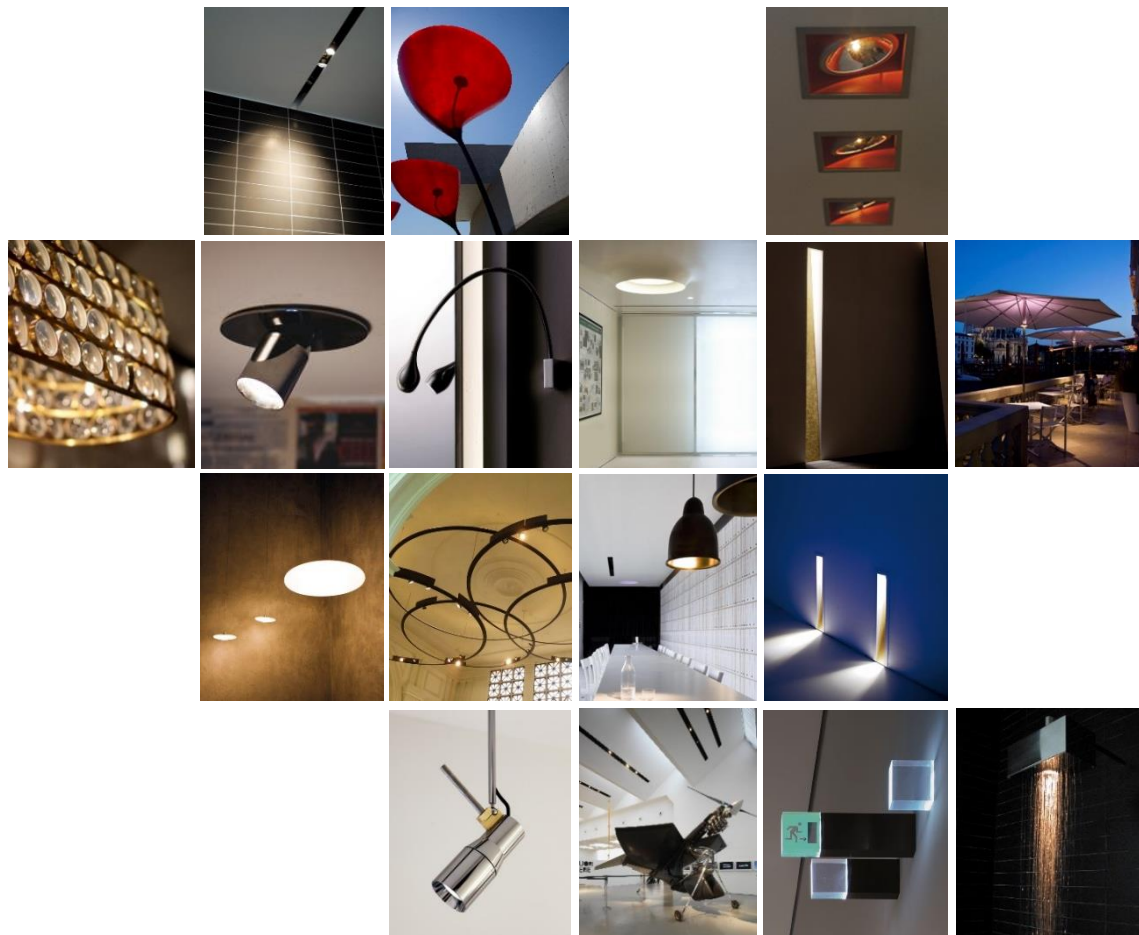
le **lensoptica amP** si suddividono in quattro categorie di apertura angolare del fascio: stretto, medio, largo ed ellittico. il valore esatto dell'angolo dipende dal diametro della sorgente.

**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.







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