



*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.*

*marionanni*

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.

prodotto  
product



schede tecniche  
data sheets



curve fotometriche  
photometric curves



modelli 3d per i tuoi render  
3d models for your render





**apparecchio di illuminazione a sospensione per interni IP20 realizzato in alluminio ossidato.**

**modelli:**

**n55 sospensione a.r. con rosone disponibile con cavo 3000mm e tige 330mm o con tige rigida di 956mm,**

**n55 sospensione scomparsa totale a.r. con cavo 3000mm e tige 330mm,**

**n55 sospensione a.r. biemissione Ø115mm disponibile con rosone e cavo 3000mm e tige 330mm o a scomparsa totale con cavo 3000mm e tige 330mm.**

**n55 sospensione a.r. biemissione Ø160mm disponibile con rosone e cavo 3000mm e tige 330mm o a scomparsa totale con cavo 3000mm e tige 330mm,**

**da abbinare ai seguenti propulsori dinamici n55:**

**55/350e les19 9,7W 350mA 1240lm,**

**55/350 les19 9,7W 350mA 1240lm,**

**55/500 les19 14W 500mA 1580lm,**

**55/500 les9 13,6W 500mA 800lm,**

**65/500e les19 14W 500mA 1580lm,**

**65/700 les19 19,9W 700mA 2140lm,**

**65/700 les9 19,5W 700mA 1110lm,**

**82/1050 les19 30,5W 1050mA 3000lm.**

**tutti i propulsori sono Ra98 1 step macadam con sorgente elettronica 2700K, 3000K o 3000Vb K (progettato per il settore alta moda).**

**l'apposito attacco n55 permette di intercambiare tre tipi di lampadina:**

**classica, decorativa e tecnica. eventuali irregolarità del vetro sono garanzia di un prodotto unico, soffiato e realizzato interamente a mano da maestri vetrai.**

**alimentatore escluso, da installare remoto.**

**accessori: guarnizione con trappola di luce per vetri trasparenti; frangiluce a nido d'ape, lente ellittica, antiabbagliamento per lampadine tecniche, cassaforma scomparsa totale per cartongesso e laterizio, tappi di chiusura.**

**finiture: argento hacca, nero55, my bianco.**

**lampadine classiche e decorative con vetro trasparente, sabbato e bianco latte.**

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

**IP20 rated suspension light fitting for indoor use made of oxidised aluminium.**

**versions:**

**n55 sospensione a.r. with ceiling rose available with cable 3000mm and rigid rod 330mm or with rigid rod 956mm,**

**n55 sospensione scomparsa totale a.r. with cable 3000mm and rigid rod 330mm,**

**n55 sospensione a.r. biemissione Ø115mm available with ceiling rose and cable 3000mm and rigid rod 330mm or fully concealed with cable 3000mm and rigid rod.**

**n55 sospensione a.r. biemissione Ø160mm available with ceiling rose and cable 3000mm and rigid rod 330mm or fully concealed with cable 3000mm and rigid rod,**

**which can be paired with the following propulsori dinamici n55:**

**55/350e les19 9.7W 350mA 1240lm,**

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

**55/500 les19 14W 500mA 1580lm,**

**55/500 les9 13.6W 500mA 800lm,**

**65/500e les19 14W 500mA 1580lm,**

**65/700 les19 19.9W 700mA 2140lm,**

**65/700 les9 19.5W 700mA 1110lm,**

**82/1050 les19 30.5W 1050mA 3000lm.**

**all propellers are Ra98 1 step macadam with 2700K, 3000K or 3000Vb K electronic source (designed for high fashion industry). the specific n55 lamp-holder allows to change three**

**types of light bulbs: classic, decorative and technical. any irregularities in the glass are a guarantee of an unique product, blown and entirely hand crafted by master glassmakers.**

**power supply not included, to be installed remotely.**

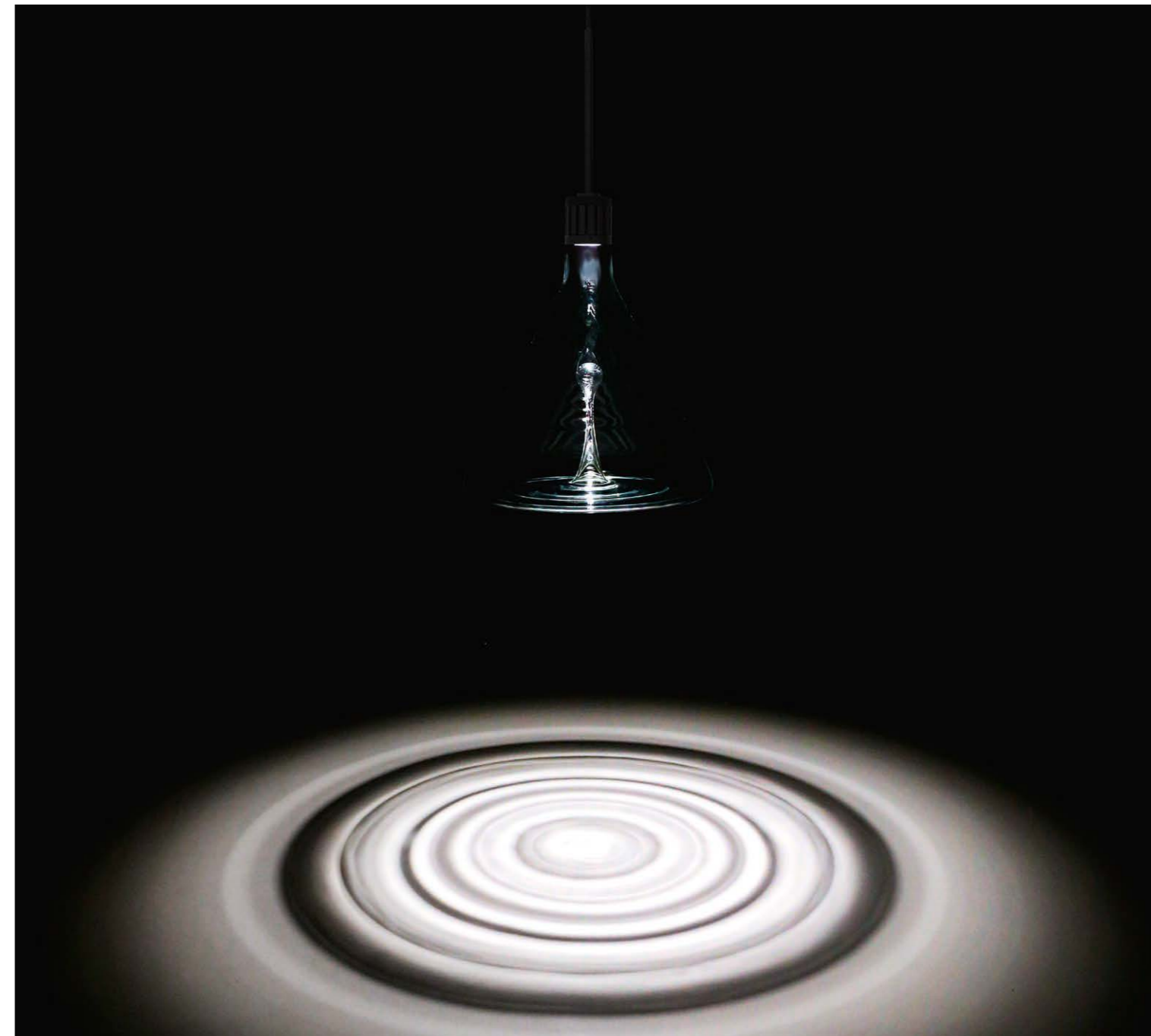
**accessories: gasket with light trap for transparent glass; honeycomb louvre, elliptical lens and anti-glare for technical bulbs, fully concealed housing for**

**plasterboard and brickwork, end caps.**

**finishes: argento hacca, nero55, my bianco.**

**classic and decorative bulbs with transparent, sanded and milk white glass.**

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



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



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*diffusore classico  
classic diffuser*

*diffusore decorativo  
decorative diffuser*

*diffusore tecnico  
technical diffuser*

customize your light visit [Viabizzuno.com](https://www.viabizzuno.com)

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

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

**3. scegli il tuo diffusore classico, decorativo e tecnico  
choose your classic, decorative and technical diffuser**

**n55 sospensione**

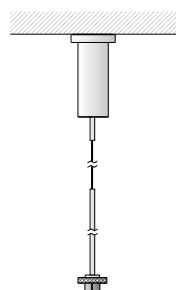
**propulsore dinamico n55**

**diffusore classico  
classic diffuser**

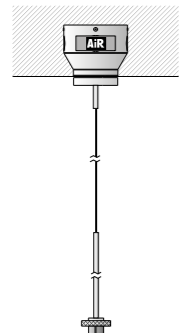
**diffusore decorativo  
decorative diffuser**

**diffusore tecnico  
technical diffuser**

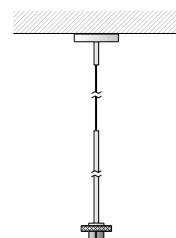
**n55 sospensione a.r. interfaccia**  
alimentatore remoto  
remote power supply



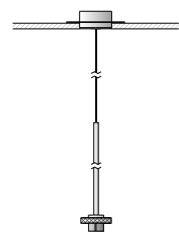
**n55 sospensione a.r. interfaccia**  
alimentatore incassato  
recessed power supply



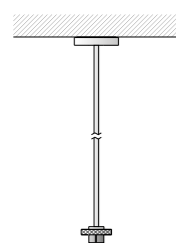
**n55 sospensione a.r. interfaccia**  
alimentatore remoto  
remote power supply



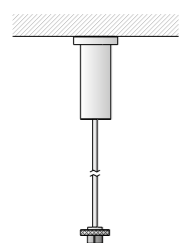
**n55 sospensione a.r. interfaccia**  
alimentatore remoto con  
rosone scomparsa totale  
remote power supply  
with total recessed rose



**n55 sospensione a.r. interfaccia**  
alimentatore remoto  
con tige rigida  
remote power supply  
with rigid tige



**n55 sospensione a.r. interfaccia**  
alimentatore remoto  
con tige rigida  
remote power supply  
with rigid tige



**55/350e**  
les19  
350mA  
1240 lm  
9,7W  
128 lm/W



**55/350**  
les19  
350mA  
1240 lm  
9,7W  
128 lm/W



**55/500**  
les19  
500mA  
1580 lm  
14W  
113 lm/W



**55/500**  
les9  
500mA  
800 lm  
13,6W  
59 lm/W



**65/500e**  
les19  
500mA  
1580 lm  
14W  
113 lm/W



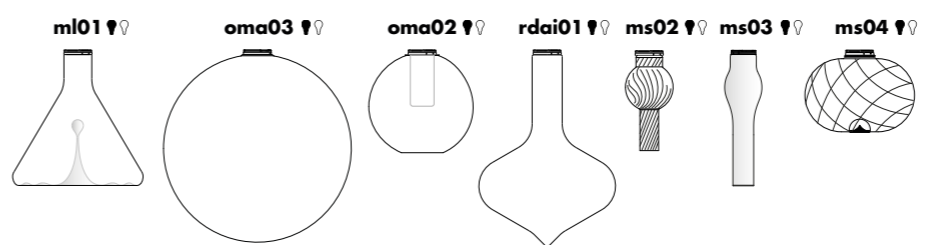
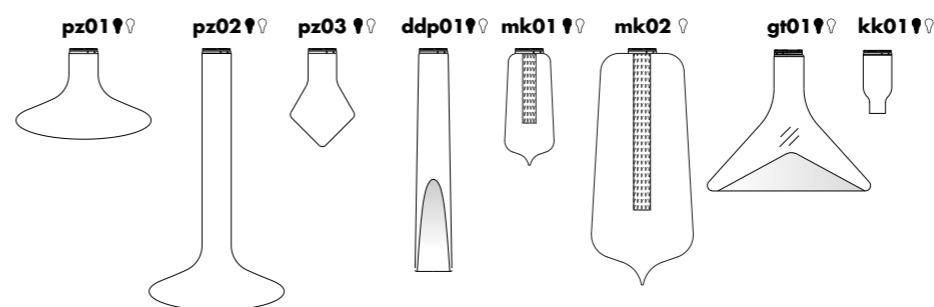
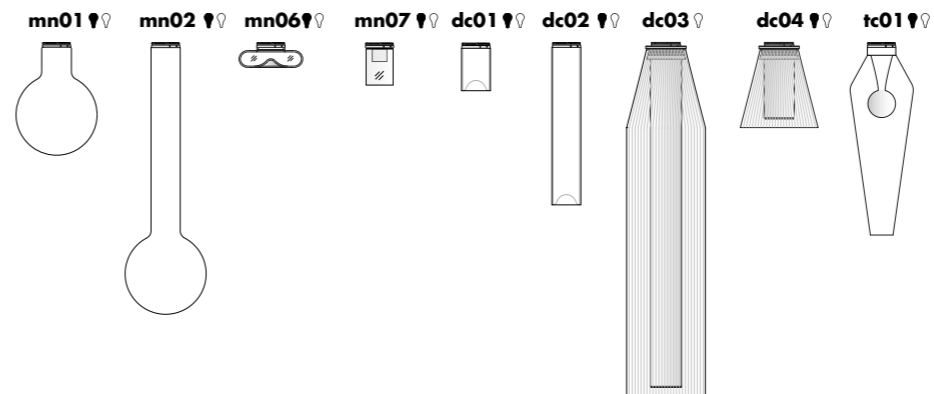
**65/700**  
les19  
700mA  
2140 lm  
19,9W  
108 lm/W



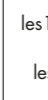
**65/700**  
les9  
700mA  
1110 lm  
19,5W  
57 lm/W



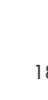
**82/1050**  
les19  
1050mA  
3000lm  
30,5W  
98 lm/W



**spot35**  
les19  
87°  
les9  
18° 23° 36°



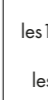
**spot55x37**  
les19  
30° 38°  
les9  
18° 23° 36°



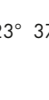
**spot55x61**  
les19  
36° 47°  
les9  
18° 23° 36°



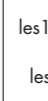
**spot82x35**  
les19  
31° 42°  
les9  
13° 19° 23° 35°



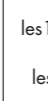
**spot82x79**  
les19  
23° 37° 46°  
les9  
13° 19° 23° 35°



**spot100**  
les19  
16° 25° 40° 54°  
les9  
10° 22°



**lensoptica amP150**  
les19  
22° 51°  
les9  
13°

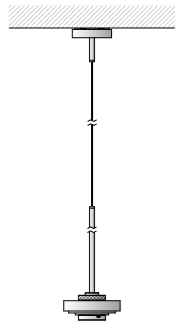


**lensoptica amP180**  
les19  
15° 41° 53° 20°x55°  
les9  
10°

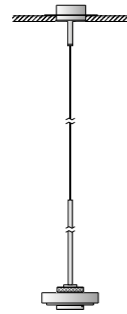


**n55 sospensione biemissione**

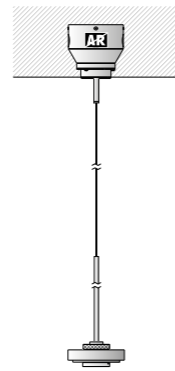
**n55 sospensione a.r.  
propulsore biemissione 115** ↓  
alimentatore remoto  
remote power supply



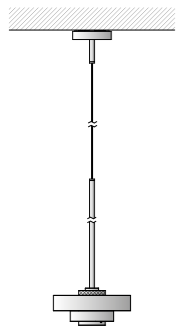
**n55 sospensione a.r.  
propulsore biemissione 115** ↓  
alimentatore remoto con  
rosone scomparsa totale  
remote power supply  
with total recessed rose



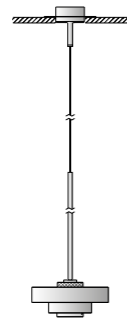
**n55 sospensione a.r.  
propulsore biemissione 115** ↓  
alimentatore incassato  
recessed power supply



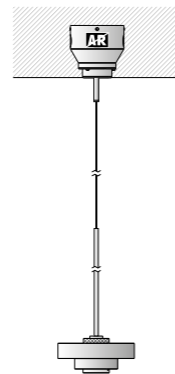
**n55 sospensione a.r.  
propulsore biemissione 160** ↓  
alimentatore remoto  
remote power supply



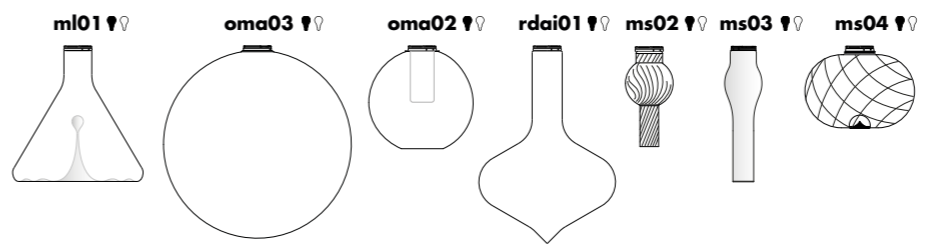
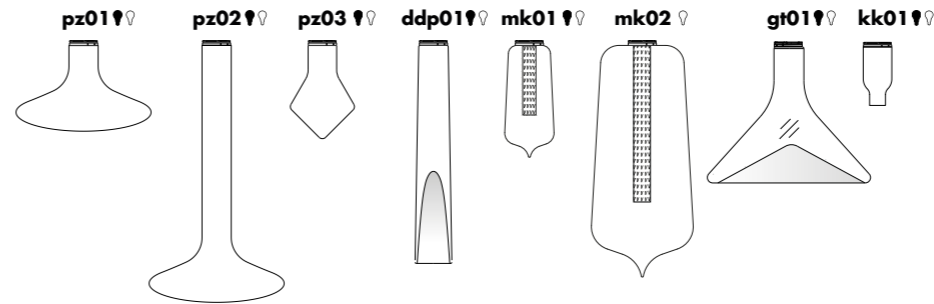
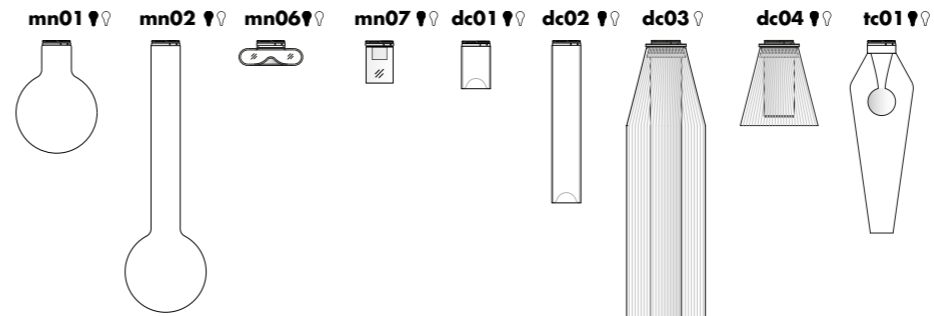
**n55 sospensione a.r.  
propulsore biemissione 160** ↓  
alimentatore remoto con  
rosone scomparsa totale  
remote power supply  
with total recessed rose



**n55 sospensione a.r.  
propulsore biemissione 160** ↓  
alimentatore incassato  
recessed power supply

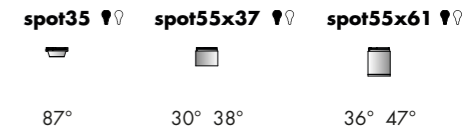


**diffusore classico  
classic diffuser**



**diffusore decorativo  
decorative diffuser**

**diffusore tecnico  
technical diffuser**



les19 ● 87° 30° 38° 36° 47°  
les9 ● 18° 23° 36°



les19 ● 31° 42° 23° 37° 46°  
les9 ● 13° 19° 23° 35°

**spot100** ↓



les19 ● 16° 25° 40° 54°  
les9 ● 10° 22°

**lensoptica amP150** ↓

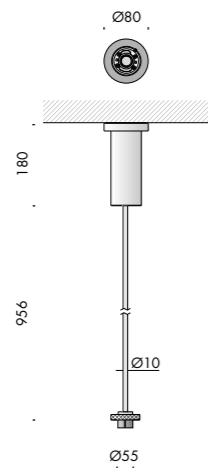
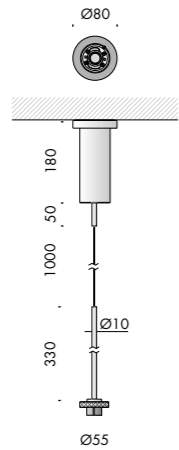







les19 ● 22° 51°  
les9 ● 13°

**lensoptica amP180** ↓



les19 ● 15° 41° 53° 20°x55°  
les9 ● 10°

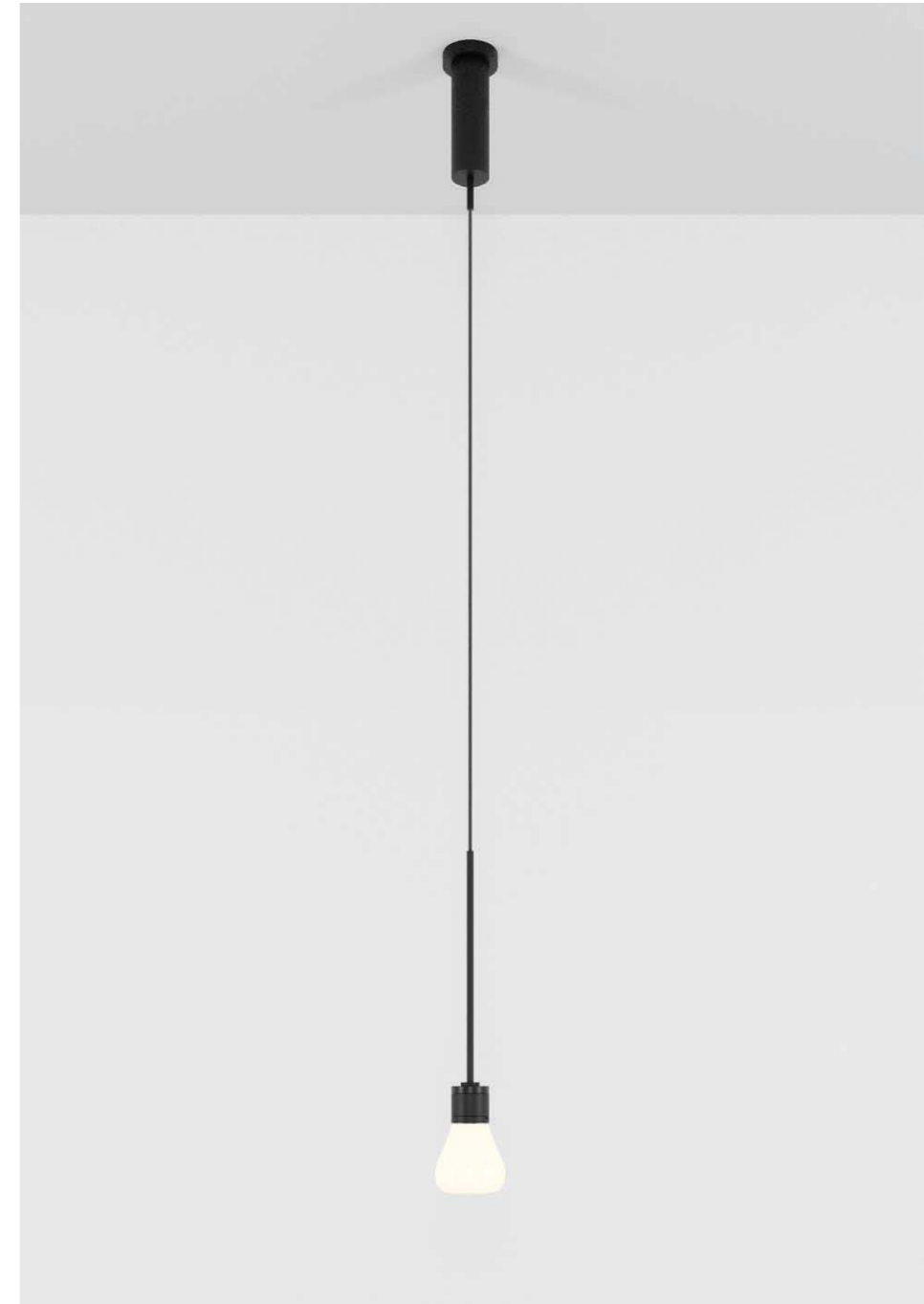
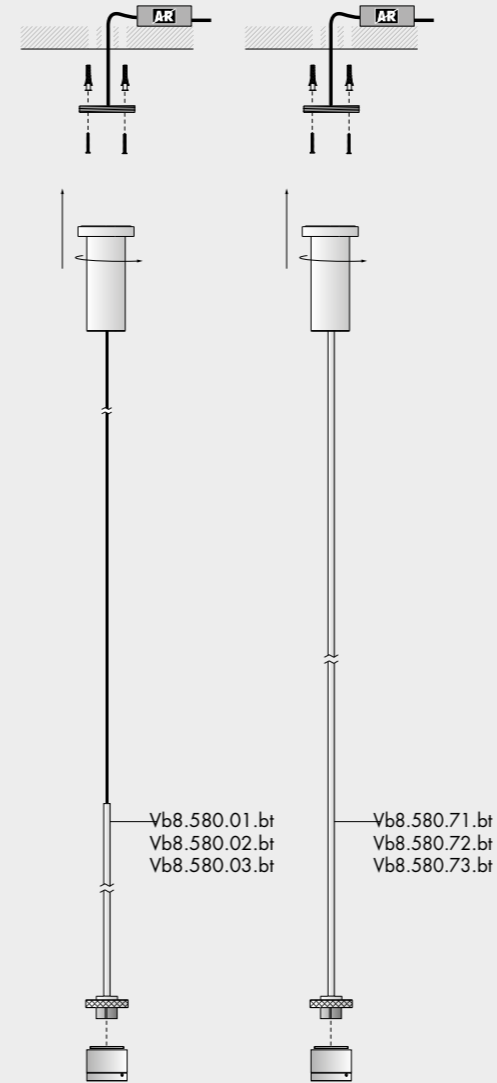


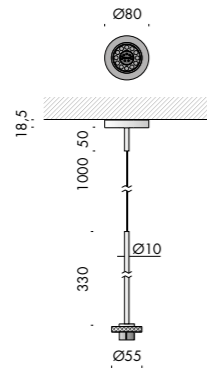
**n55 sospensione interfaccia a.r.**        

<b>Vb8.580.101.bt</b>	argento hacca	350 ÷ 1050mA	n55 0,9
<b>Vb8.580.102.bt</b>	nero55	350 ÷ 1050mA	n55 0,9
<b>Vb8.580.103.bt</b>	my bianco	350 ÷ 1050mA	n55 0,9

<b>Vb8.580.71.bt</b>	argento hacca	350 ÷ 1050mA	n55 0,9
<b>Vb8.580.72.bt</b>	nero55	350 ÷ 1050mA	n55 0,9
<b>Vb8.580.73.bt</b>	my bianco	350 ÷ 1050mA	n55 0,9

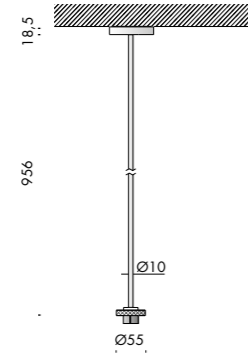
montaggio rosone  
ceiling rose mounting





**n55 sospensione interfaccia a.r.**

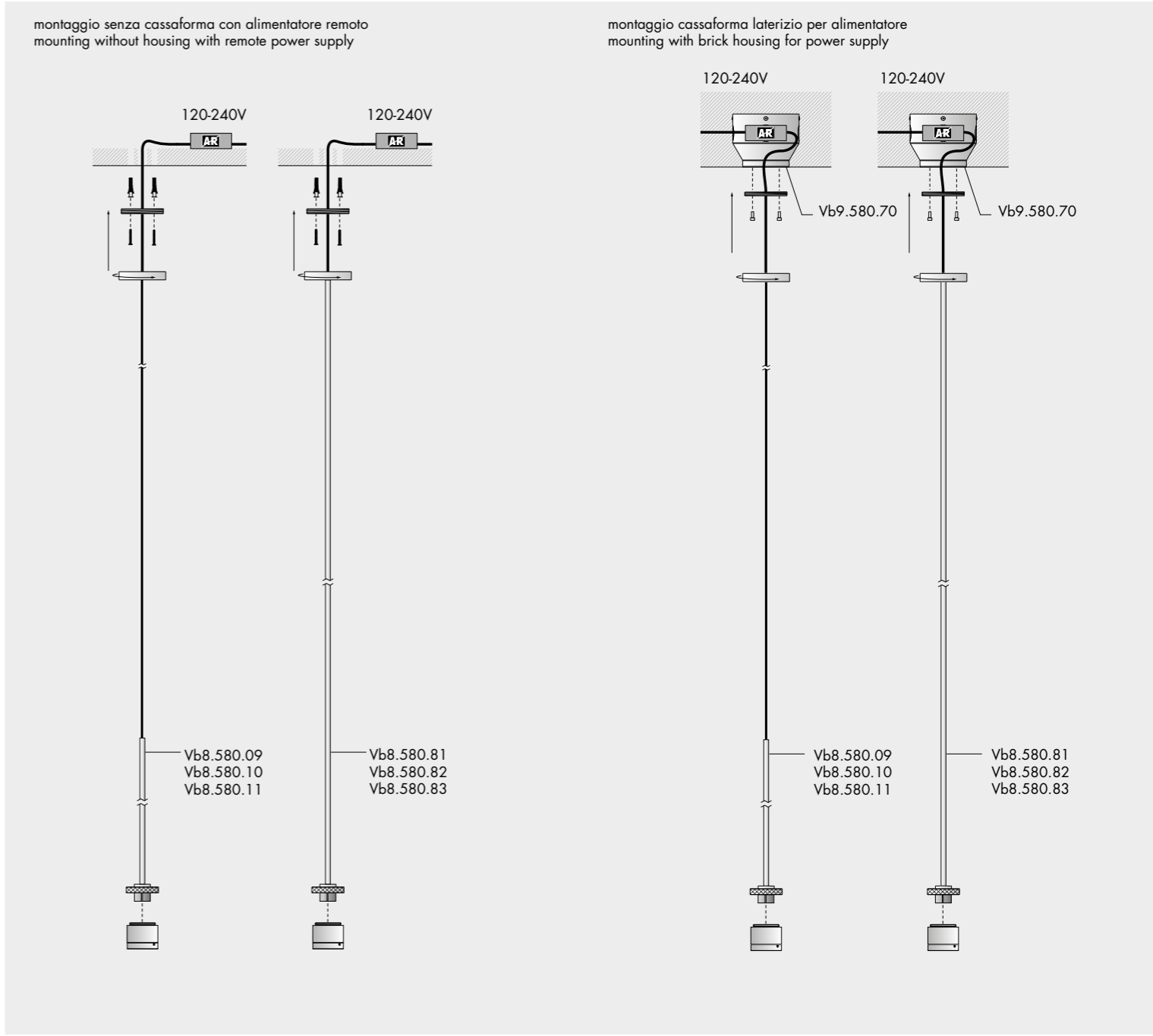
<b>Vb8.580.109</b>	argento hacca	n55 0,3
<b>Vb8.580.110</b>	nero55	n55 0,3
<b>Vb8.580.111</b>	my bianco	n55 0,3

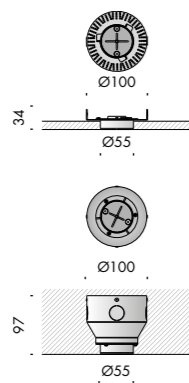
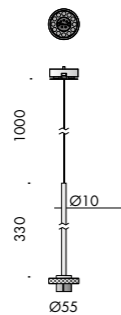


<b>Vb8.580.81</b>	argento hacca	350 ÷ 1050mA	n55 0,5
<b>Vb8.580.82</b>	nero55	350 ÷ 1050mA	n55 0,5
<b>Vb8.580.83</b>	my bianco	350 ÷ 1050mA	n55 0,5

**accessori. accessories.**

<b>Vb9.580.70</b>	cassaforma laterizio per alimentatore brick housing for power supply	0,1
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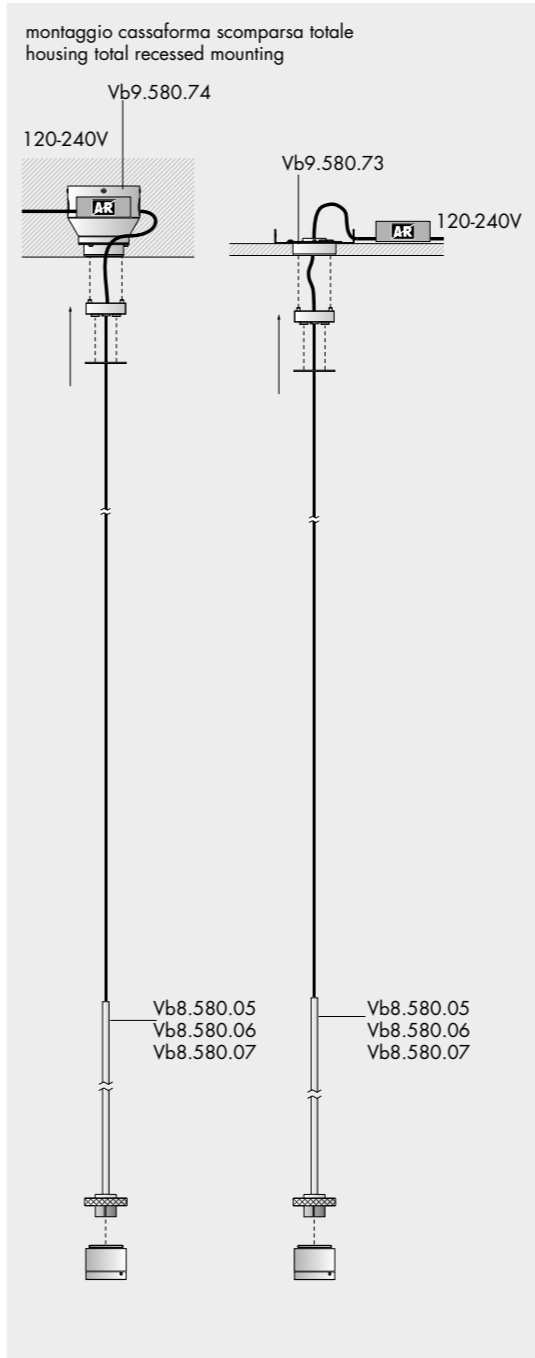


**n55 sospensione interfaccia scomparsa totale a.r.**

<b>Vb8.580.105</b>	argento hacca	n55 0,3
<b>Vb8.580.106</b>	nero55	n55 0,3
<b>Vb8.580.107</b>	my bianco	n55 0,3

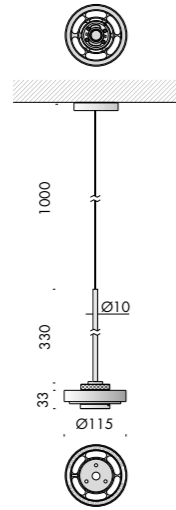
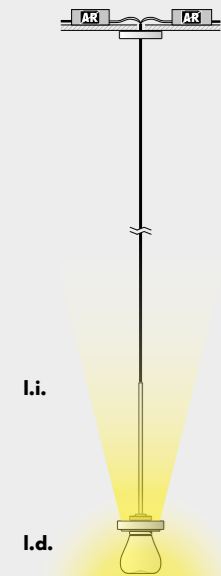
**rosoni di alimentazione. ceiling roses.**

<b>Vb9.580.73</b>	cassaforma cartongesso scomparsa totale plasterboard housing total recessed	0,1
<b>Vb9.580.74</b>	cassaforma laterizio scomparsa totale brick housing total recessed	0,1





n55 sospensione a.r. biemissione 115  
incassato · recessed



**n55 sospensione propulsore a.r. biemissione 115** IP20 ★ CE i

<b>Vb8.580.151.27</b>	argento hacca	2700K	l.d. 19,9W l.i. 14,6W	n55 0,7
<b>Vb8.580.152.27</b>	nero55	2700K	l.d. 19,9W l.i. 14,6W	n55 0,7
<b>Vb8.580.153.27</b>	my bianco	2700K	l.d. 19,9W l.i. 14,6W	n55 0,7

**l.d. (luce diretta · direct light)**

Ra	R9	ies tm-30		sdcm	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	

**l.i. (luce indiretta · indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f (min)</sub>	lm	W	lm/W
95	90	Rf 93	Rg 102	step 2	350	32,4	1110	11,3	98
Vz050	5,9	Ta25 °C		vita media · average life		50000 h		L80 B10	

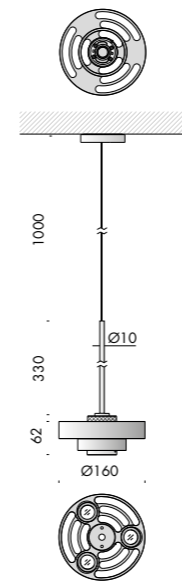
<b>Vb8.580.151.30</b>	argento hacca	3000K	l.d. 19,9W l.i. 14,6W	n55 0,7
<b>Vb8.580.152.30</b>	nero55	3000K	l.d. 19,9W l.i. 14,6W	n55 0,7
<b>Vb8.580.153.30</b>	my bianco	3000K	l.d. 19,9W l.i. 14,6W	n55 0,7

**d.l. (luce diretta · direct light)**

Ra	R9	ies tm-30		sdcm	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	

**i.l. (luce indiretta · indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f (min)</sub>	lm	W	lm/W
95	90	Rf 93	Rg 102	step 2	350	16,2	1170	11,3	104
Vz051	5,9	Ta25 °C		vita media · average life		50000 h		L80 B10	



**n55 sospensione propulsore a.r. biemissione 160** IP20 ★ CE i

<b>Vb8.580.156.27</b>	argento hacca	2700K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.157.27</b>	nero55	2700K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.158.27</b>	my bianco	2700K	l.d. 19,9W l.i. 3X24W	n55 1,3

**l.d. (luce diretta · direct light)**

Ra	R9	ies tm-30		sdcm	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	

**l.i. (luce indiretta · indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	90	Rf 93	Rg 99	step 2	700	32,3	2721	22,6	120
ci020-3	les14	Ta25 °C		vita media · average life		50000 h		L80 B10	

<b>Vb8.580.156.30</b>	argento hacca	3000K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.157.30</b>	nero55	3000K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.158.30</b>	my bianco	3000K	l.d. 19,9W l.i. 3X24W	n55 1,3

**d.l. (luce diretta · direct light)**

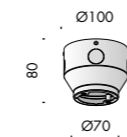
Ra	R9	ies tm-30		sdcm	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	700	28,4	2140	19,9	108
xm001	les19	Ta25 °C		vita media · average life		70000 h		L80 B10	

**l.i. (luce indiretta · indirect light)**

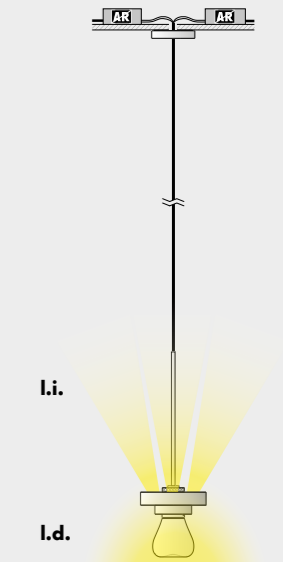
Ra	R9	ies tm-30		sdcm	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	90	Rf 93	Rg 99	step 2	700	32,3	2558	22,6	113
ci021-3	les14	Ta25 °C		vita media · average life		50000 h		L80 B10	

**cassaforma laterizio. brick housing** CE i

<b>Vb9.580.70</b>	per alimentatore · for power supply	0,1
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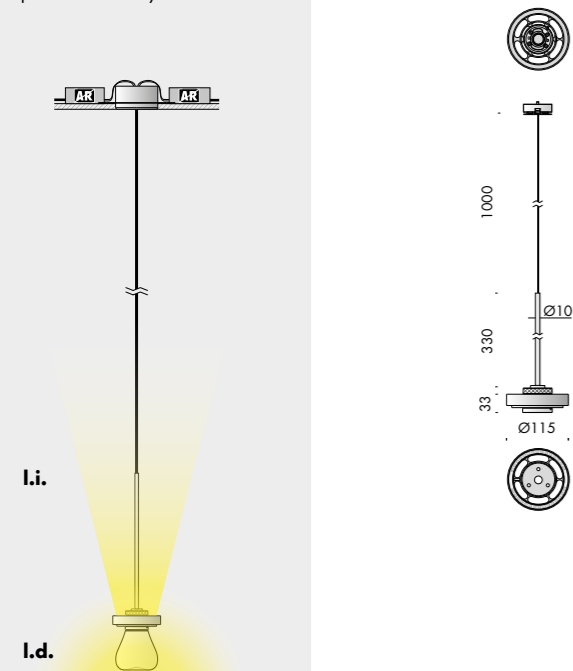
n55 sospensione a.r. biemissione 160  
incassato · recessed



l.i.

l.d.

n5 sospensione a.r. biemissione 115  
scomparsa totale - fully concealed



n55 sospensione propulsore scomparsa totale a.r. biemissione 115 IP20

<b>Vb8.580.141.27</b>	argento hacca	2700K	l.d. 19,9W l.i. 14,6W	n55 0,6
<b>Vb8.580.142.27</b>	nero55	2700K	l.d. 19,9W l.i. 14,6W	n55 0,6
<b>Vb8.580.143.27</b>	my bianco	2700K	l.d. 19,9W l.i. 14,6W	n55 0,6

**I.d. (luce diretta - direct light)**

Ra	R9	ies tm-30		sdcm	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	

**I.i. (luce indiretta - indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f(min)</sub>	lm	W	lm/W
95	90	Rf 93	Rg 102	step 2	350	32,4	1110	11,3	98
Vz050	5,9	Ta25 °C		vita media · average life		50000 h		L80 B10	

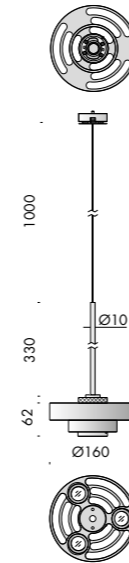
<b>Vb8.580.141.30</b>	argento hacca	3000K	l.d. 19,9W l.i. 14,6W	n55 0,6
<b>Vb8.580.142.30</b>	nero55	3000K	l.d. 19,9W l.i. 14,6W	n55 0,6
<b>Vb8.580.143.30</b>	my bianco	3000K	l.d. 19,9W l.i. 14,6W	n55 0,6

**d.l. (luce diretta - direct light)**

Ra	R9	ies tm-30		sdcm	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	

**i.l. (luce indiretta - indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f(min)</sub>	lm	W	lm/W
95	90	Rf 93	Rg 102	step 2	350	16,2	1170	11,3	104
Vz051	5,9	Ta25 °C		vita media · average life		50000 h		L80 B10	



n55 sospensione propulsore scomparsa totale a.r. biemissione 160 IP20

<b>Vb8.580.146.27</b>	argento hacca	2700K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.147.27</b>	nero55	2700K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.148.27</b>	my bianco	2700K	l.d. 19,9W l.i. 3X24W	n55 1,3

**I.d. (luce diretta - direct light)**

Ra	R9	ies tm-30		sdcm	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	

**I.i. (luce indiretta - indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f(min)</sub>	lm	W	lm/W
98	90	Rf 93	Rg 99	step 2	700	32,3	2721	22,6	120
ci020-3	les14	Ta25 °C		vita media · average life		50000 h		L80 B10	

<b>Vb8.580.146.30</b>	argento hacca	3000K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.147.30</b>	nero55	3000K	l.d. 19,9W l.i. 3X24W	n55 1,3
<b>Vb8.580.148.30</b>	my bianco	3000K	l.d. 19,9W l.i. 3X24W	n55 1,3

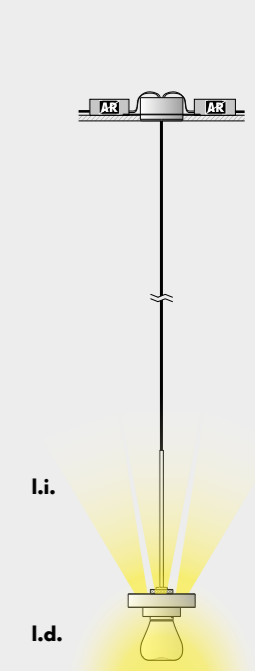
**d.l. (luce diretta - direct light)**





Ra	R9	ies tm-30		sdcm	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	

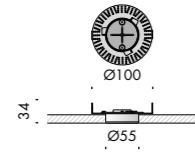
**i.l. (luce indiretta - indirect light)**

Ra	R9	ies tm-30		sdcm	mA	V <sub>f(min)</sub>	lm	W	lm/W
98	90	Rf 93	Rg 99	step 2	700	32,3	2558	22,6	113
ci021-3	les14	Ta25 °C		vita media · average life		50000 h		L80 B10	

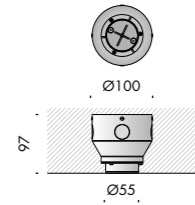
n55 sospensione a.r. biemissione 160  
scomparsa totale - fully concealed



rosoni di alimentazione. ceiling roses.    



**Vb9.580.73** cassaforma cartongesso scomparsa totale plasterboard housing total recessed 0,1



**Vb9.580.74** cassaforma laterizio scomparsa totale brick housing total recessed 0,1





**propulsore dinamico n55 55/350e**

- Vb9.580.150.27** argento hacca 2700K les19 ● n55 0,2
- Vb9.580.151.27** nero55 2700K les19 ● n55 0,2
- Vb9.580.152.27** my bianco 2700K les19 ● n55 0,2

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	

- Vb9.580.150.30** argento hacca 3000K les19 ● n55 0,2
- Vb9.580.151.30** nero55 3000K les19 ● n55 0,2
- Vb9.580.152.30** my bianco 3000K les19 ● n55 0,2

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
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
- Vb9.580.152.30v** my bianco 3000VbK les19 ● n55 0,2

Ra	R9	ies tm-30		sdcm	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**

- Vb9.580.50.27** argento hacca 2700K les19 ● n55 0,2
- Vb9.580.51.27** nero55 2700K les19 ● n55 0,2
- Vb9.580.52.27** my bianco 2700K les19 ● n55 0,2

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	

- Vb9.580.50.30** argento hacca 3000K les19 ● n55 0,2
- Vb9.580.51.30** nero55 3000K les19 ● n55 0,2
- Vb9.580.52.30** my bianco 3000K les19 ● n55 0,2

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
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
- Vb9.580.52.30v** my bianco 3000VbK les19 ● n55 0,2

Ra	R9	ies tm-30		sdcm	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**

<b>Vb9.580.62.27</b>	argento hacca	2700K	les19 ● n55	0,2
<b>Vb9.580.63.27</b>	nero55	2700K	les19 ● n55	0,2
<b>Vb9.580.64.27</b>	my bianco	2700K	les19 ● n55	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	27,9	1580	14,0	113
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

<b>Vb9.580.62.30</b>	argento hacca	3000K	les19 ● n55	0,2
<b>Vb9.580.63.30</b>	nero55	3000K	les19 ● n55	0,2
<b>Vb9.580.64.30</b>	my bianco	3000K	les19 ● n55	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	27,9	1580	14,0	113
xm001	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

<b>Vb9.580.62.30v</b>	argento hacca	3000VbK	les19 ● n55	0,2
<b>Vb9.580.63.30v</b>	nero55	3000VbK	les19 ● n55	0,2
<b>Vb9.580.64.30v</b>	my bianco	3000VbK	les19 ● n55	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	27,9	1580	14,0	113
xm007	les19 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		



<b>Vb9.580.101.27</b>	argento hacca	2700K	les9 ● n55	0,2
<b>Vb9.580.102.27</b>	nero55	2700K	les9 ● n55	0,2
<b>Vb9.580.103.27</b>	my bianco	2700K	les9 ● n55	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
xe000	les9 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		







<b>Vb9.580.101.30</b>	argento hacca	3000K	les9 ● n55	0,2
<b>Vb9.580.102.30</b>	nero55	3000K	les9 ● n55	0,2
<b>Vb9.580.103.30</b>	my bianco	3000K	les9 ● n55	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
xe001	les9 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		

<b>Vb9.580.101.30v</b>	argento hacca	3000VbK	les9 ● n55	0,2
<b>Vb9.580.102.30v</b>	nero55	3000VbK	les9 ● n55	0,2
<b>Vb9.580.103.30v</b>	my bianco	3000VbK	les9 ● n55	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
xe007	les9 ●	Ta25 °C		vita media · average life		70000 h	L80 B10		



**propulsore dinamico n55 65/500e**      

<b>Vb9.580.154.27</b>	argento hacca	2700K	les19 ● n55	0,3
<b>Vb9.580.155.27</b>	nero55	2700K	les19 ● n55	0,3
<b>Vb9.580.156.27</b>	my bianco	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		







<b>Vb9.580.154.30</b>	argento hacca	3000K	les19 ● n55	0,3
<b>Vb9.580.155.30</b>	nero55	3000K	les19 ● n55	0,3
<b>Vb9.580.156.30</b>	my bianco	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		

<b>Vb9.580.154.30v</b>	argento hacca	3000VbK	les19 ● n55	0,3
<b>Vb9.580.155.30v</b>	nero55	3000VbK	les19 ● n55	0,3
<b>Vb9.580.156.30v</b>	my bianco	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**      

<b>Vb9.580.54.27</b>	argento hacca	2700K	les19 ● n55	0,3
<b>Vb9.580.55.27</b>	nero55	2700K	les19 ● n55	0,3
<b>Vb9.580.56.27</b>	my bianco	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		

<b>Vb9.580.54.30</b>	argento hacca	3000K	les19 ● n55	0,3
<b>Vb9.580.55.30</b>	nero55	3000K	les19 ● n55	0,3
<b>Vb9.580.56.30</b>	my bianco	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		

<b>Vb9.580.54.30v</b>	argento hacca	3000VbK	les19 ● n55	0,3
<b>Vb9.580.55.30v</b>	nero55	3000VbK	les19 ● n55	0,3
<b>Vb9.580.56.30v</b>	my bianco	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		IP20	★	CE	i
<b>Vb9.580.106.27</b>	argento hacca	2700K	les9 ●	n55	0,3
<b>Vb9.580.107.27</b>	nero55	2700K	les9 ●	n55	0,3
<b>Vb9.580.108.27</b>	my bianco	2700K	les9 ●	n55	0,3

Ra	R9	ies tm-30		sdcm	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	

<b>Vb9.580.106.30</b>	argento hacca	3000K	les9 ●	n55	0,3
<b>Vb9.580.107.30</b>	nero55	3000K	les9 ●	n55	0,3
<b>Vb9.580.108.30</b>	my bianco	3000K	les9 ●	n55	0,3

Ra	R9	ies tm-30		sdcm	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	

<b>Vb9.580.106.30v</b>	argento hacca	3000VbK	les9 ●	n55	0,3
<b>Vb9.580.107.30v</b>	nero55	3000VbK	les9 ●	n55	0,3
<b>Vb9.580.108.30v</b>	my bianco	3000VbK	les9 ●	n55	0,3

Ra	R9	ies tm-30		sdcm	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	★	CE	i
<b>Vb9.580.58.27</b>	argento hacca	2700K	les19 ●	n55	0,5
<b>Vb9.580.59.27</b>	nero55	2700K	les19 ●	n55	0,5
<b>Vb9.580.60.27</b>	my bianco	2700K	les19 ●	n55	0,5

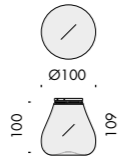
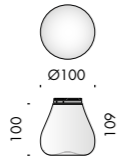
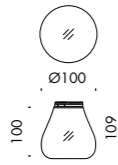
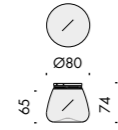
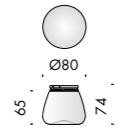
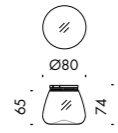
Ra	R9	ies tm-30		sdcm	mA	V <sub>f (min)</sub>	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	1050	29,0	3000	30,5	98
xm000	les19 ●	Ta25 °C		vita media · average life		70000 h		L80 B10	

<b>Vb9.580.58.30</b>	argento hacca	3000K	les19 ●	n55	0,5
<b>Vb9.580.59.30</b>	nero55	3000K	les19 ●	n55	0,5
<b>Vb9.580.60.30</b>	my bianco	3000K	les19 ●	n55	0,5

Ra	R9	ies tm-30		sdcm	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	

<b>Vb9.580.58.30v</b>	argento hacca	3000VbK	les19 ●	n55	0,5
<b>Vb9.580.59.30v</b>	nero55	3000VbK	les19 ●	n55	0,5
<b>Vb9.580.60.30v</b>	my bianco	3000VbK	les19 ●	n55	0,5

Ra	R9	ies tm-30		sdcm	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** ☆ CE i

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

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

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

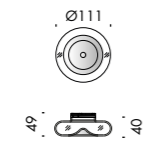
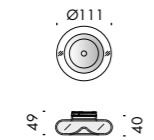
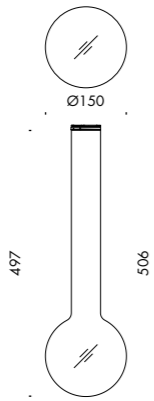
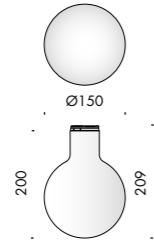
**Vb9.580.02.t** hm02 trasparente · transparent n55 0,1

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

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







**marionanni** ☆ CE i

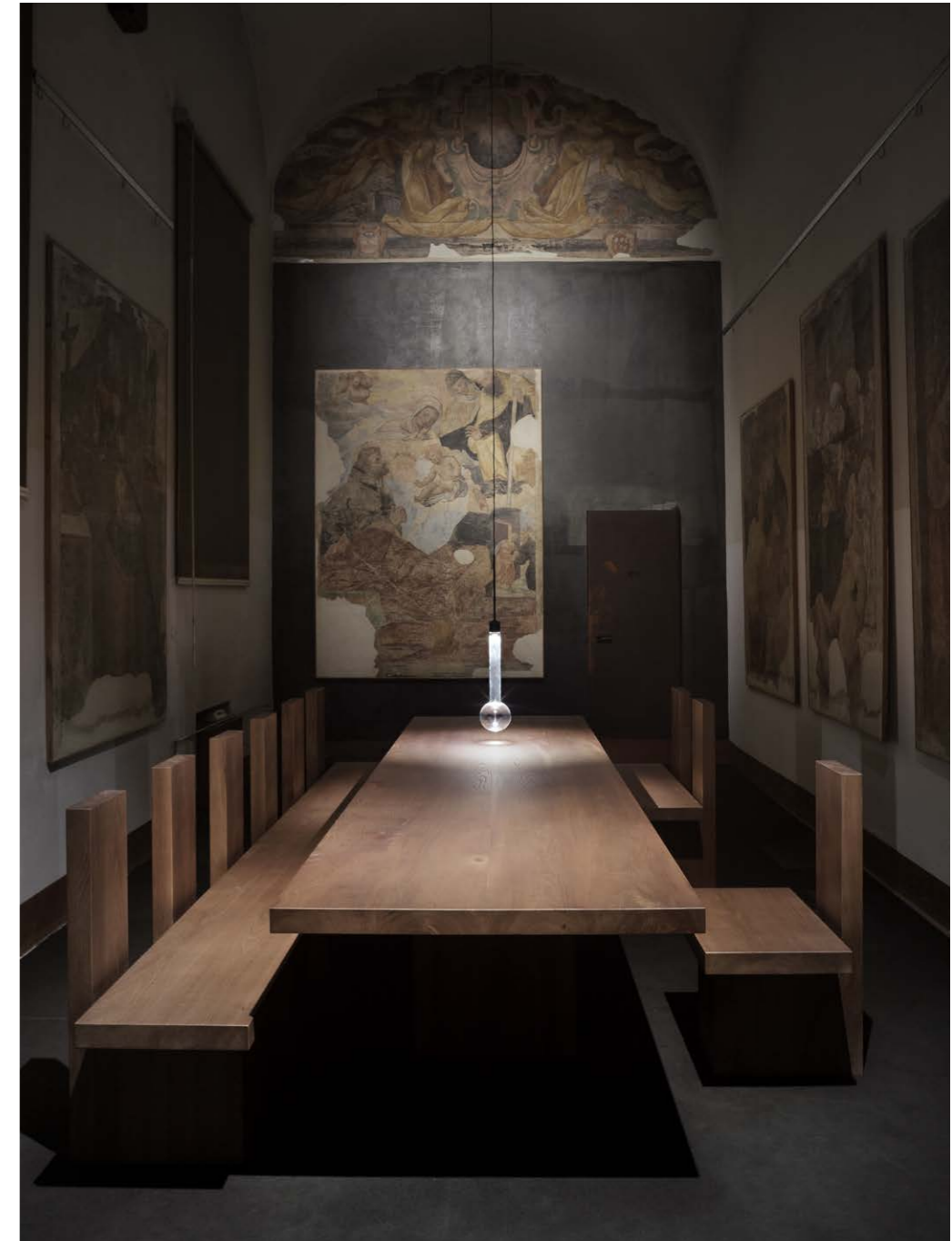
**Vb9.580.03.s** mn01 sabbaiato · sanded n55 0,3

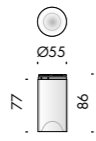
**Vb9.580.04.t** mn02 trasparente · transparent n55 0,5

**Vb9.580.173.b** mn06 tabacchiera  
bianco satinato · white frosted n55 0,1

**Vb9.580.173.cr** mn06 tabacchiera  
trasparente cromata · transparent chromed n55 0,1

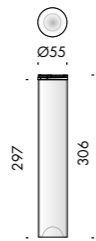
**Vb9.580.178** mn07 trasparente sabbaiato · transparent sanded n55 0,1





**david chipperfield**  ☆ CE i

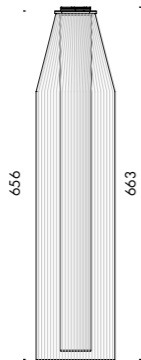
**Vb9.580.05.s** dc01 sabbiato · sanded n55 0,1



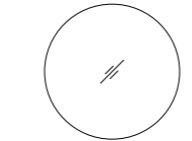
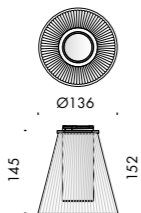
**Vb9.580.06.s** dc02 sabbiato · sanded n55 0,3



**Vb9.580.19.tr** dc03 trasparente, rigato  
transparent, striped n55 3,1

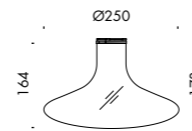


**Vb9.580.20.tr** dc04 trasparente, rigato e sabbiato  
transparent, striped and sanded n55 0,3



**peter zumthor**  ☆ CE i

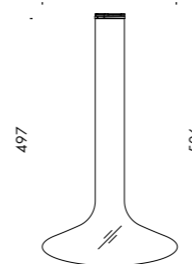
**Vb9.580.08.t** pz01 trasparente · transparent n55 0,3



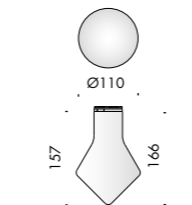
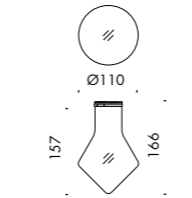
**Vb9.580.10.t** pz02 trasparente · transparent n55 0,6

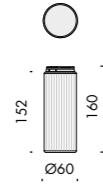


**Vb9.580.11.t** pz03 trasparente · transparent n55 0,2



**Vb9.580.11.s** pz03 sabbiato · sanded n55 0,2

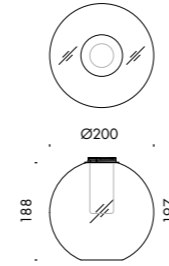




**al-jawad pike**

☆ CE i

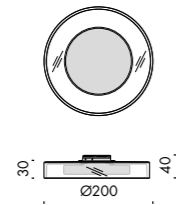
**Vb9.580.18.tr** aip01 trasparente, rigato · transparent, striped n55 0,2



**oma**

☆ CE i

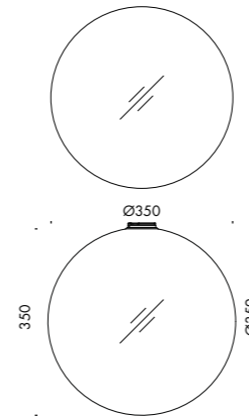
**Vb9.580.14.t** oma02 trasparente · transparent n55 0,4



**neri&hu**

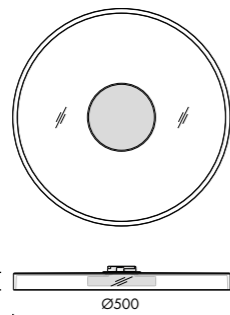
☆ CE i

**Vb9.580.116.ts** nh01 trasparente, sabbiato · transparent, sanded n55 0,9

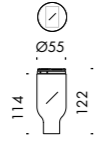


**Vb9.580.15.t** oma03 trasparente · transparent

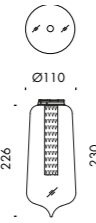
n55 1,4



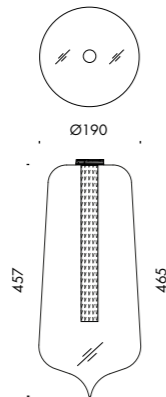
**Vb9.580.117.ts** nh02 trasparente, sabbiato · transparent, sanded n55 2,9



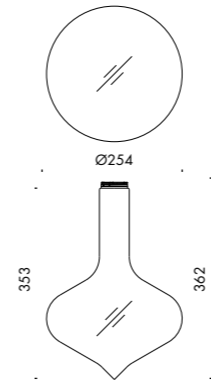
**kengo kuma** ☆ CE ⓘ  
**Vb9.580.07.c** kk01 cristallo · crystal n55 0,3



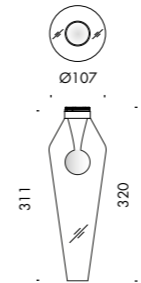
**marcio kogan** ☆ CE ⓘ  
**Vb9.580.111.t** mk01 trasparente · transparent n55 0,4



**Vb9.580.112.t** mk02 trasparente · transparent n55 1,8

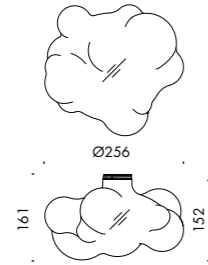


**rdai** ☆ CE ⓘ  
**Vb9.580.12.t** rdai01 trasparente · transparent n55 0,6



**tzach cohen** ☆ CE ⓘ  
**Vb9.580.180.ts** tc01 trasparente, sabbiato · transparent, sanded n55 0,4



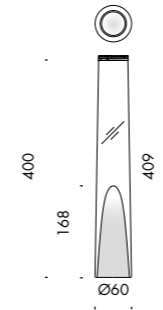


winy maas

☆ CE i

Vb9.580.09.t wm01 trasparente · transparent

n55 0,6

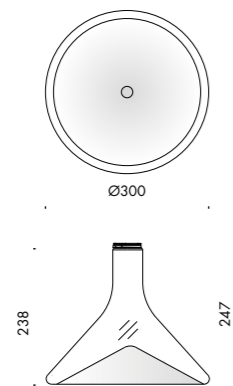


domenico de palo

☆ CE i

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

n55 0,5

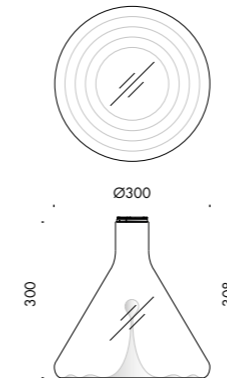


gio firotto

☆ CE i

Vb9.580.17.t gt01 trasparente, sabbiato · transparent, sanded

n55 1



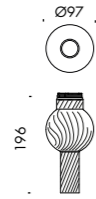
max lam

☆ CE i

Vb9.580.13.t ml01 trasparente · transparent

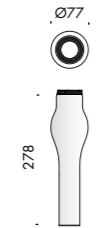
n55 1,4



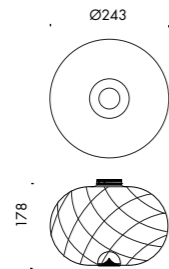


**mirko spaccapanico** ☆ C€ ⓘ

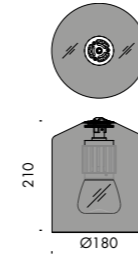
**Vb9.580.175.t** ms02 trasparente · transparent n55 0,2



**Vb9.580.176.t** ms03 trasparente · transparent n55 0,2



**Vb9.580.177.t** ms04 trasparente · transparent n55 0,5



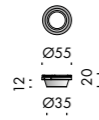
**luigi lanzi** ☆ C€ ⓘ

**Vb9.580.170** ll01 nero fumè · black smoke n55 1,6

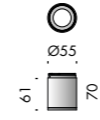


**accessori per diffusore trasparente. transparent diffuser accessories.** ☆ C€ ⓘ

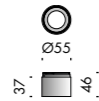
**Vb9.580.160** trappola di luce antiabbagliamento nero  
anti-glare black light trap 0,03



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



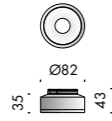
spot55x61			★	€€	ⓘ
<b>Vb9.580.25</b>	argento hacca	36° les19 ●	n55	0,2	
<b>Vb9.580.26</b>	nero55	36° les19 ●	n55	0,2	
<b>Vb9.580.26.b</b>	my bianco	36° les19 ●	n55	0,2	
<b>Vb9.580.27</b>	argento hacca	47° les19 ●	n55	0,2	
<b>Vb9.580.28</b>	nero55	47° les19 ●	n55	0,2	
<b>Vb9.580.28.b</b>	my bianco	47°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



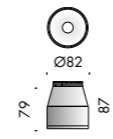
spot55x37			★	€€	ⓘ
<b>Vb9.580.121</b>	argento hacca	18° les9 ●	n55	0,1	
<b>Vb9.580.122</b>	nero55	18° les9 ●	n55	0,1	
<b>Vb9.580.122.b</b>	my bianco	18° les9 ●	n55	0,1	
<b>Vb9.580.123</b>	argento hacca	23° les9 ● 30° les19 ●	n55	0,1	
<b>Vb9.580.124</b>	nero55	23° les9 ● 30° les19 ●	n55	0,1	
<b>Vb9.580.124.b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



accessori spot55. accessories.			★	€€	ⓘ
<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 ●	n55		0,1
<b>Vb9.580.132</b>	nero55	13° les9 ●	n55		0,1
<b>Vb9.580.137</b>	my bianco	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>Vb9.580.138</b>	my bianco	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>Vb9.580.141</b>	my bianco	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
<b>Vb9.580.142</b>	my bianco	35° les9 ● 42° les19 ●	n55		0,1



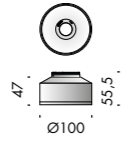
spot82x79			★	CE	i
<b>Vb9.580.31</b>	argento hacca	23° les19 ●	n55		0,2
<b>Vb9.580.32</b>	nero55	23° les19 ●	n55		0,2
<b>Vb9.580.32.b</b>	my bianco	23° les19 ●	n55		0,2
<b>Vb9.580.33</b>	argento hacca	37° les19 ●	n55		0,2
<b>Vb9.580.34</b>	nero55	37° les19 ●	n55		0,2
<b>Vb9.580.34.b</b>	my bianco	37°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



accessori spot82. accessories.		★	CE	i
<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



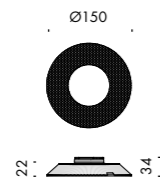




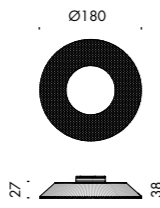
spot100			★	CE	i
<b>Vb9.580.37</b>	argento hacca	10° les9 ● 16° les19 ●	n55	0,1	
<b>Vb9.580.38</b>	nero55	10° les9 ● 16° les19 ●	n55	0,1	
<b>Vb9.580.38.b</b>	my bianco	10° les9 ● 16° les19 ●	n55	0,1	
<b>Vb9.580.39</b>	argento hacca	22° les9 ● 25° les19 ●	n55	0,1	
<b>Vb9.580.40</b>	nero55	22° les9 ● 25°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

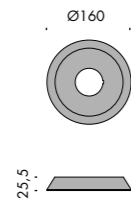




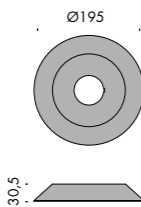
lensoptica amP150		☆	CE	i
<b>Vb9.518.91</b>	fascio stretto narrow beam	13° 22°	les9 ● les19 ●	n55 0,3
<b>Vb9.518.92</b>	fascio largo wide beam	51°	les19 ●	n55 0,3



lensoptica amP180		☆	CE	i
<b>Vb9.518.81</b>	fascio stretto narrow beam	10° 15°	les9 ● les19 ●	n55 0,6
<b>Vb9.518.82</b>	fascio medio medium beam	41°	les19 ●	n55 0,6
<b>Vb9.518.83</b>	fascio largo wide beam	53°	les19 ●	n55 0,6
<b>Vb9.518.84</b>	fascio ellittico elliptical beam	20°x55°	les19 ●	n55 0,6



riflettore in metallo 150		☆	CE	i
<b>Vb9.518.95.n</b>	nero55			0,1
<b>Vb9.518.95.mb</b>	my bianco			0,1
<b>Vb9.518.95.h</b>	argento hacca			0,1



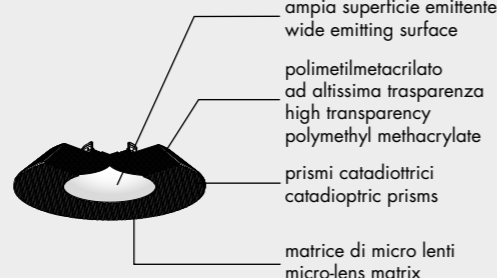
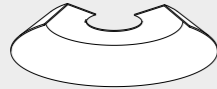
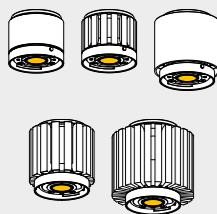
riflettore in metallo 180		☆	CE	i
<b>Vb9.518.96.n</b>	nero55			0,1
<b>Vb9.518.96.mb</b>	my bianco			0,1
<b>Vb9.518.96.h</b>	argento hacca			0,1



propulsore dinamico n55

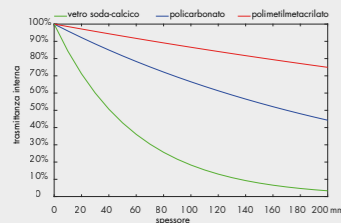
riflettore in metallo · metal reflector

lensoptica amP



materiale	coefficiente d'assorbimento $\alpha$
vetro soda calcico	0,017 mm <sup>-1</sup>
poli carbonato	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.

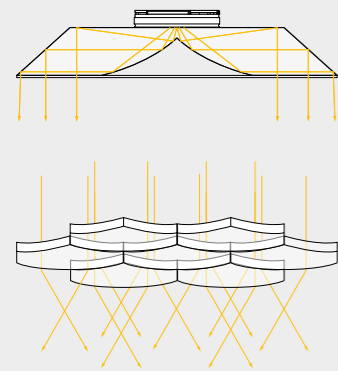
la superficie emittente di **lensoptica amP** è dotata di una matrice di microlenti. ogni microlente riceve un fascio collimato e in funzione della curvatura ne allarga l'apertura angolare in modo controllato. la sovrapposizione dei contributi delle singole microlenti produce una distribuzione d'illuminamento 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.



**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.

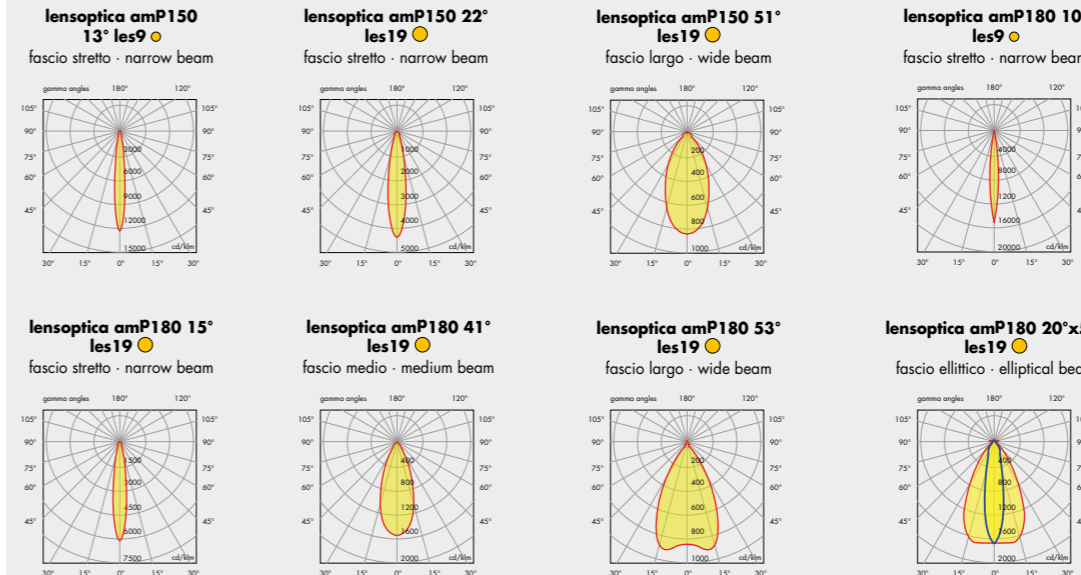
l'ampia superficie emittente garantisce un alto comfort visivo e UGR<19.

**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.

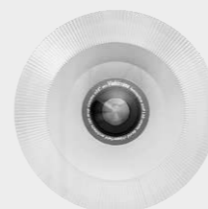
high efficiency is achieved thanks to a very high transparent material, i.e. polymethyl methacrylate, by means of catadioptric prisms specifically designed to reflect and transmit light reducing losses due to absorption: these elements, reflect 90% of the incident light flow downwards and transmit 10% 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**  
fascio stretto · narrow beam



**lensoptica amP180**  
fascio stretto · narrow beam



**lensoptica amP180**  
fascio medio · medium beam



**lensoptica amP150**  
fascio largo · wide beam



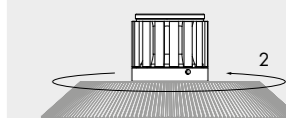
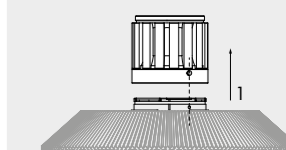
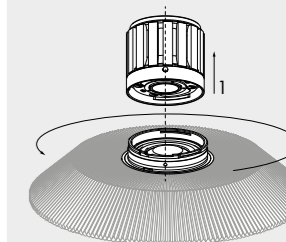
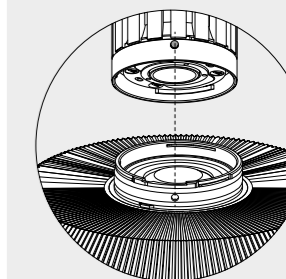
**lensoptica amP180**  
fascio largo · wide beam



**lensoptica amP180**  
fascio ellittico · elliptical beam



lensoptica amP  
installazione · mounting





## lettura delle tabelle tecniche how to read technical tables

xxxxxxxxxxxxxxxx										230V 50-60Hz		A	⊕	IP66	⚡	UL	CE	🔒
a	b	c	d	e	f	g	g	h	i									

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

**componenti. components.** IK10 CE 🔒

**accessori. accessories.** IK10 CE 🔒

1	2	3	4	5	6	7	8	9										
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									
500	27,9	1580	14,0	113														
xm000	les19	☀️	Ta25 °C	vita media · average life	70000 h	L80	B10											
10	11						12	13										

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	codice sorgente elettronica Viabizzuno · Viabizzuno led source code
11	superficie emittente · light emitting surface (mm)
12	% flusso residuo a fine vita · end life % flux
13	% consentita sotto limite · allowed % under limit


## gradi di protezione protection degrees

IPOX	non protetto no protection
IP1X	contro corpi estranei >50 mm protection against solid objects
IP2X	contro corpi estranei >12 mm protection against solid objects
IP3X	contro corpi estranei >2,5 mm protection against solid objects
IP4X	contro corpi estranei >1 mm protection against solid objects
IP5X	protezione da polvere dust-protected
IP6X	stagno alla polvere dust-proof

IPX0	non protetto no protection
IPX1	protetto contro la caduta verticale di gocce d'acqua protected against water drops falling vertically
IPX2	protetto contro la caduta di gocce con inclinazione max 15° protected against water drops max inclination 15°
IPX3	protetto contro la caduta di gocce con inclinazione max 60° protected against water drops max inclination 60°
IPX4	protetto contro spruzzi d'acqua protected against sprinkling water
IPX5	protetto contro getti d'acqua protected against water jets
IPX6	protetto contro inondazioni protected against flooding
IPX7	per breve immersione protected against brief immersions
IPX8	per immersione prolungata protected against long immersion

IK01	nessuna protezione no protection
IK01	protetto contro l'energia d'urto 0,15J protected against collision energy
IK02	protetto contro l'energia d'urto 0,2J protected against collision energy
IK03	protetto contro l'energia d'urto 0,35J protected against collision energy
IK04	protetto contro l'energia d'urto 0,5J protected against collision energy
IK05	protetto contro l'energia d'urto 0,7J protected against collision energy
IK06	protetto contro l'energia d'urto 1J protected against collision energy
IK07	protetto contro l'energia d'urto 2J protected against collision energy
IK08	protetto contro l'energia d'urto 5J protected against collision energy
IK09	protetto contro l'energia d'urto 10J protected against collision energy
IK10	protetto contro l'energia d'urto 20J protected against collision energy

## legenda simboli symbols key

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

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