Viabizzuno *progettiamo la luce*

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.

Available from Cirrus Lighting · sales@cirruslighting.co.uk · 020 7193 2175

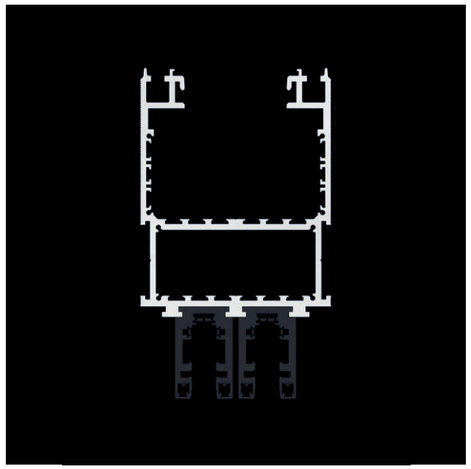
prodotto
product

schede tecniche
technical data sheet

curve fotometriche
photometric curves

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3d models for your render

ariacablata marionanni



sistema multifunzionale a soffitto e sospensione per interni IP20 realizzato con estruso di alluminio ossidato 99x131,5x3000mm progettato per essere una struttura portante e infrastruttura di comunicazione per sistemi illuminotecnici, di dati, di potenza, scenografici e acustici.
il sistema è predisposto per l'integrazione con A sistema binari A10 e A11 permettendo di alloggiare adattatori per interfacce sistema n55 in versione orientabile e sospensione.
tramite carrelli mobili e agganci meccanici integrati ai binari A10 e A11, si agevola l'ancoraggio e la movimentazione di altoparlanti, schermi e apparecchi di illuminazione commerciale.
accessori: kit sospensione, presa e connettori ariacablata, cavo di alimentazione e derivazione e tappi di chiusura
finiture: argento hacca, nero55

IP20-rated multifunctional ceiling and suspension system for indoor use made from extruded 99x131.5x3000mm oxidized aluminum designed to be a supporting structure and communication infrastructure for lighting, data, power systems, scenographic and acoustic systems.
the system is set for integration with A track system A10 and A11 allowing it to accommodate adapters for n55 system interfaces in adjustable and suspension versions.
through movable trolleys and mechanical couplers integrated with A10 and A11 tracks, the anchoring and handling of loudspeakers, screens and fixtures for commercial lighting.
accessories: suspension kit, ariacablata socket and connectors, power cable and branch and end caps
finishes: argento hacca, nero55

1 *vano portacavi 100/400V*
cable compartment 100/400V

2 *eventuali cavi necessari per accensione o alimentazione 100/400V*
any cables necessary for ignition or power supply 100/400V

3 *derivazione alimentazione 5 poli a perforazione d'isolante*
5 poles supply electric derivation insulation displacement
Vb9.668.66*

4 *cavo 5x4 mm² 220V*
5x4 mm² 220V cable
Vb9.668.61/62*

5 *vano distribuzione linee dati, di controllo e segnali audio/video/luci*
distribution compartment for data lines, control and audio/video signals/lights

6 *accesso vano portacavi ogni 500mm*
tra *vano portacavi* (1)
e vano distribuzione (5)
cable compartment access every 500mm between cable compartment (1) and distribution compartment (5)

7 *eventuali cavi necessari per linee dati, di controllo e segnali audio/video/luci*
any cables necessary for data lines, control and audio/video signals/lights

8 powercon true1
monofase 110-230Vac 16A single-fase
Vb9.001.101*

connettore femmina rj45 female connector
Vb9.001.102*

connettore xlr 5-poli (dmx) 5-pole connector
Vb9.001.103*

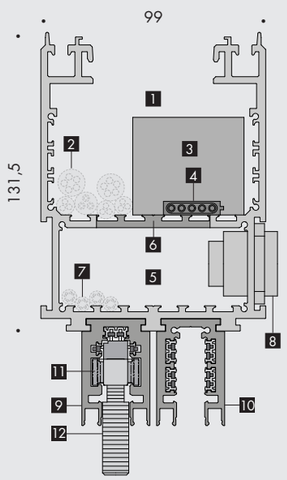
connettore xlr 3-poli (audio) 3-pole connector
Vb9.001.104*

9 **A10** 30,2mm x 47,2mm
Vb6.613.201*

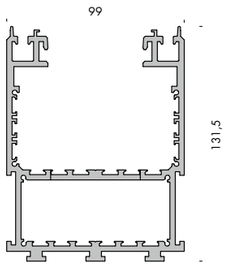
10 **A11** 30,2mm x 47,2mm
Vb6.613.301*

11 *carrello elettrificato*
electrified carriage
Vb9.613.252*

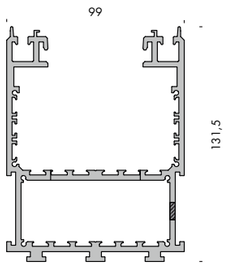
12 *vite di fissaggio meccanico max M12*
mechanical fixing screw max M12



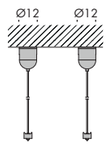
*ordinabili su www.Viabizzuno.com available on



ariacablata 01 cieco		IP20	
VB6.668.01	nero55		3000mm
VB6.668.02	argento hacca		3000mm

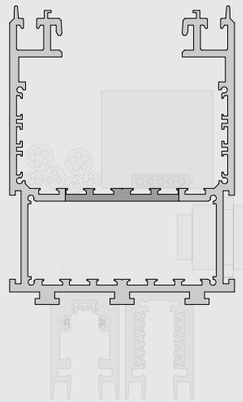


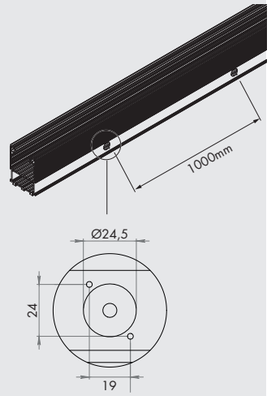
ariacablata 02 forato per prese		IP20	
VB6.668.11	nero55		3000mm
VB6.668.12	argento hacca		3000mm



kit sospensione	
Vb9.668.50	3000mm

ariacablata 02 forato per prese





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ariacablata
Vb6.668.11/12*

1 *vano portacavi 100/400V*
cable compartment 100/400V

2 *eventuali cavi necessari per accensione o alimentazione 100/400V*
any cables necessary for ignition or power supply 100/400V

3 *derivazione alimentazione 5 poli a perforazione d'isolante*
5 poles supply electric derivation insulation displacement
Vb9.668.66*

4 *cavo 5x4 mm² 220V*
5x4 mm² 220V cable
Vb9.668.61/62*

5 *vano distribuzione linee dati, di controllo e segnali audio/video/luci*
distribution compartment for data lines, control and audio/video signals/lights

6 *accesso vano portacavi ogni 500mm*
tra *vano portacavi* (1)
e vano distribuzione (5)
cable compartment access every 500mm between cable compartment (1) and distribution compartment (5)

7 *eventuali cavi necessari per linee dati, di controllo e segnali audio/video/luci*
any cables necessary for data lines, control and audio/video signals/lights

8 powercon true1
monofase 110-230Vac 16A single-fase
Vb9.001.101*

connettore femmina rj45 female connector
Vb9.001.102*

connettore xlr 5-poli (dmx) 5-pole connector
Vb9.001.103*

connettore xlr 3-poli (audio) 3-pole connector
Vb9.001.104*

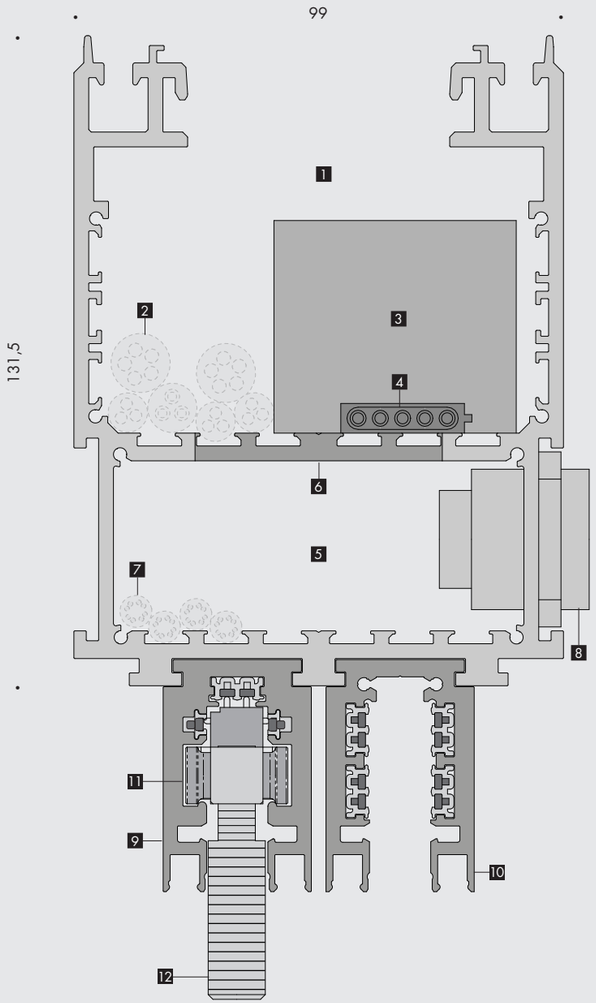
9 **A10** 30,2mm x 47,2mm
Vb6.613.201*

10 **A11** 30,2mm x 47,2mm
Vb6.613.301*

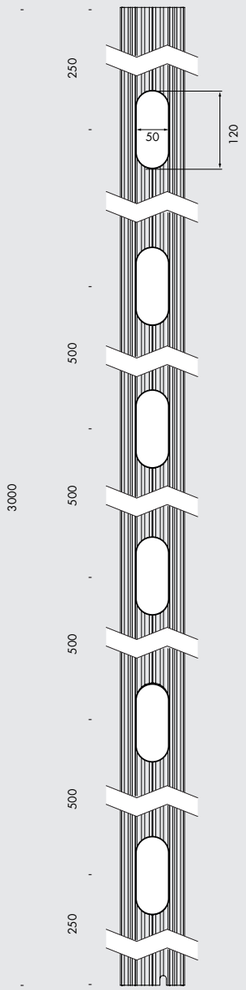
11 *carrello elettrificato*
electrified carriage
Vb9.613.252*

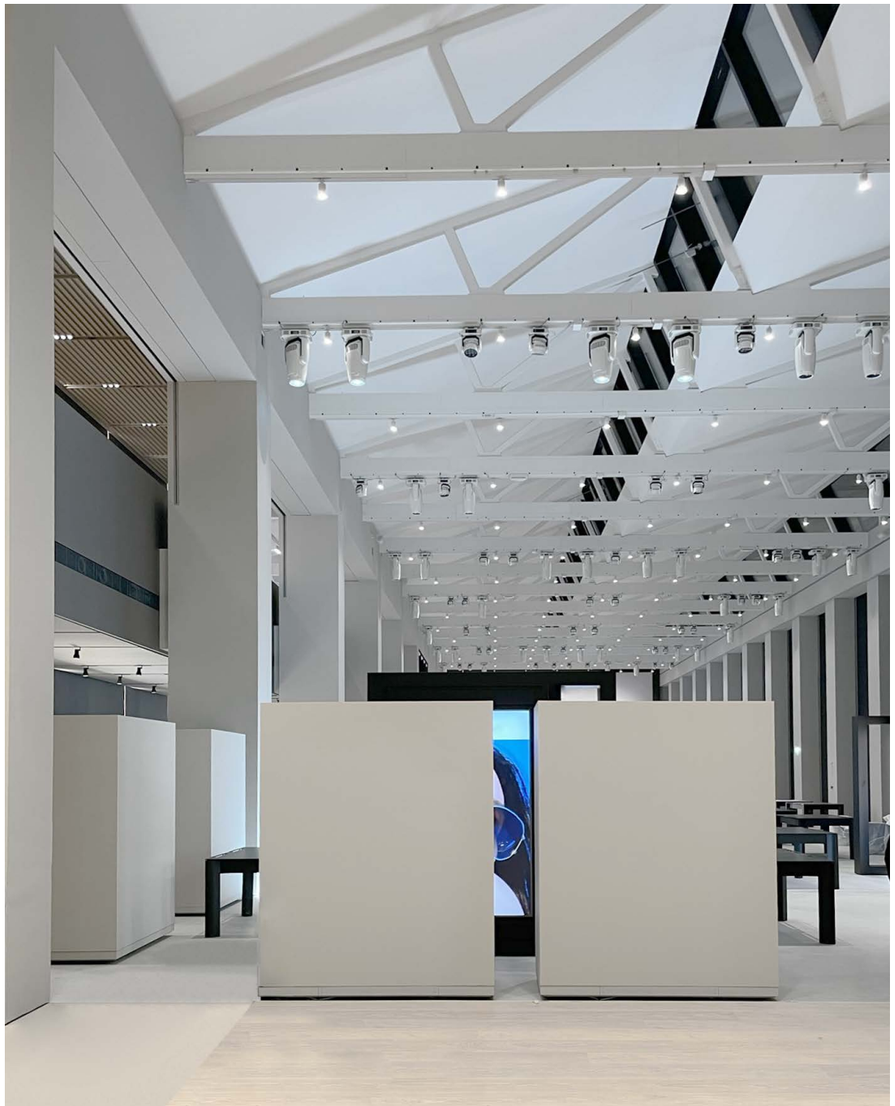
12 *vite di fissaggio meccanico max M12*
mechanical fixing screw max M12

**ordinabili su www.Viabizzuno.com available on*



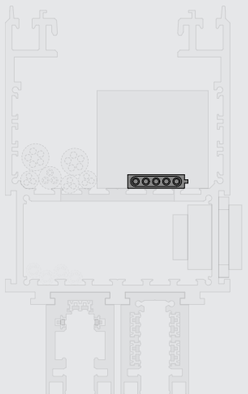
ariacablata 01/02
interasse accesso vano portacavi



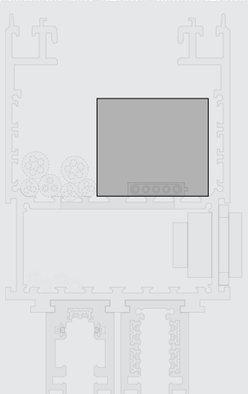


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ariacablata cavi 5x4 mm²

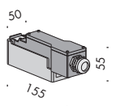


ariacablata derivazione alimentazione



cavo di alimentazione. power supply cable.			IP67	☆ CE	
Vb9.668.61	cavo di alimentazione power supply cable	5x4 mm²	250V 20A	25m	6,3
Vb9.668.62	cavo di alimentazione power supply cable	5x4 mm²	250V 20A	100m	25,2

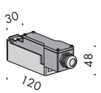




Vb9.668.66 derivazione alimentazione 5 poli a perforazione d'isolante 0,1
5 poles supply electric derivation insulation displacement



Vb9.668.67 terminale di protezione per cavo 5 poli 0,2
end cap protection for 5 poles cable

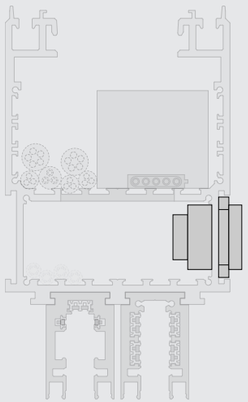


Vb9.668.65 derivazione alimentazione 3 poli a perforazione d'isolante 0,1
3 poles supply electric derivation insulation displacement

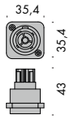


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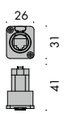
ariacablata prese



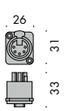
prese ariacablata	CE



VB9.001.101 powercon - presa alimentazione monofase 110-230Vac 16A



VB9.001.102 connettore rj45



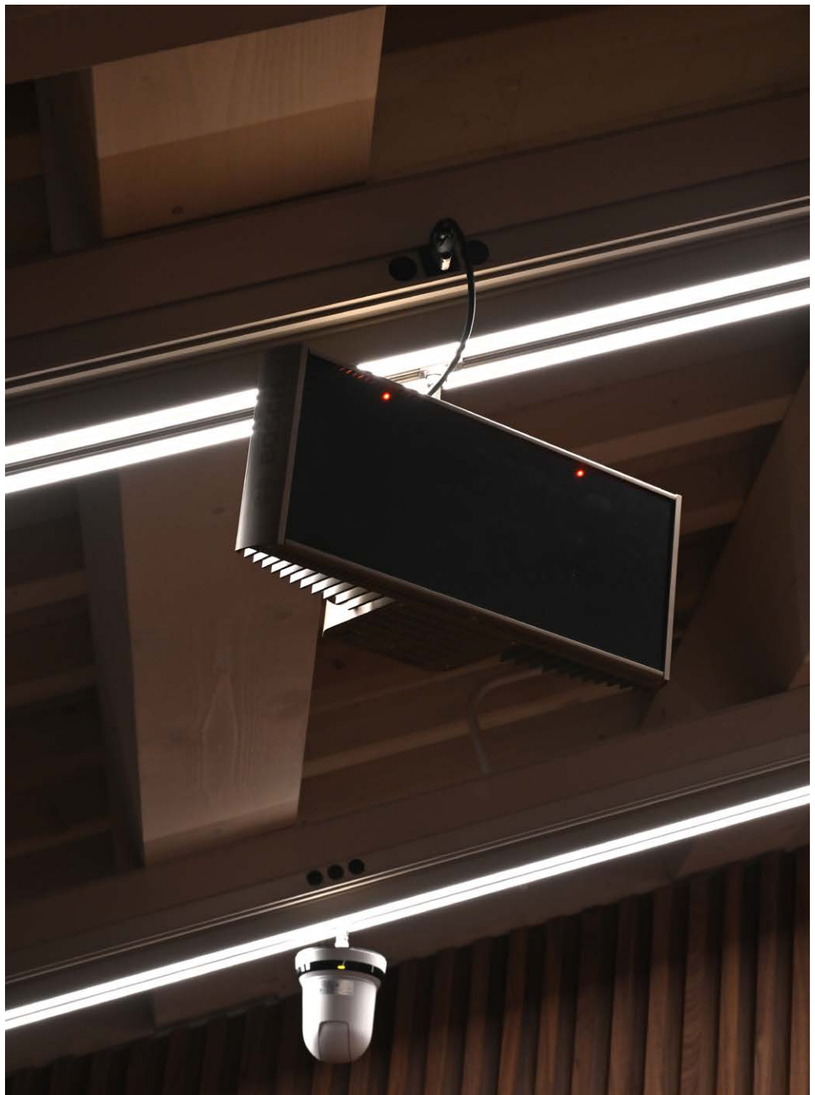
Vb9.001.103 connettore xlr 5poli dmx



VB9.001.104 connettore xlr 3poli audio



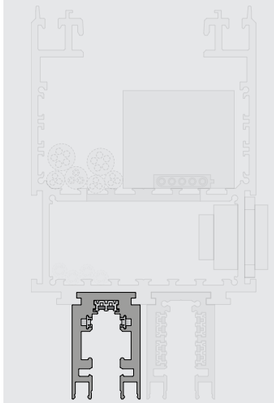
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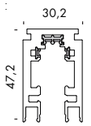




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A10





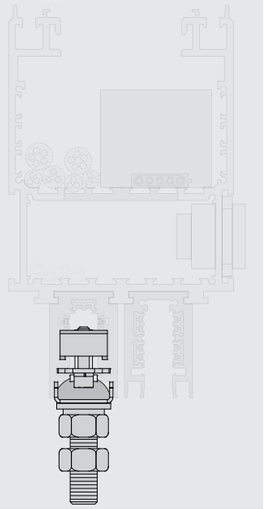
A10		48Vdc	IP20		
Vb6.613.201	nero55	max 50kg lineare	3000mm	4,5
Vb6.613.202	argento hacca	max 50kg lineare	3000mm	4,5

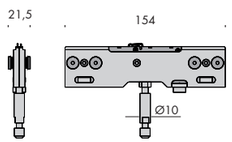


A10 aggancio meccanico

VB9.613.251		max 50kg	1

A10 aggancio meccanico





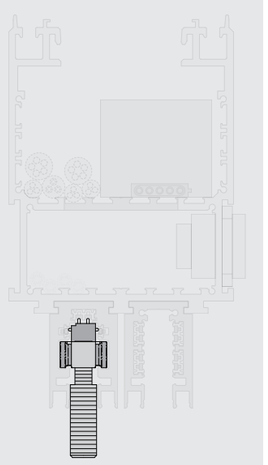
A10 carello elettrificato

VB9.613.252	carrello elettrificato · electrified carriage	max 30kg	1

A10 testata di alimentazione

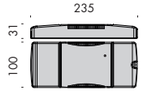
Vb9.613.262	0,5

A10 aggancio meccanico elettrificato



A10 giunto lineare

VB9.613.271	0,2



A11 alimentatori spot. power supplies. 240V 50-60Hz/48V

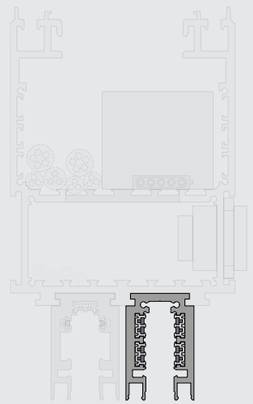
t4.057	on/off	75W	0,15
t4.058	on/off	150W	0,15

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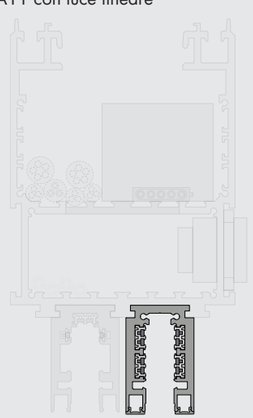


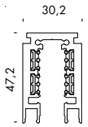
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A11

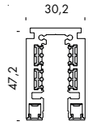


A11 con luce lineare





A11	48Vdc	IP20			
VB6.613.301	nero55			3000mm	4,5
VB6.613.302	argento hacca			3000mm	4,5



A11 con luce lineare	48Vdc	IP20			
VB6.613.331.27	nero55	2700K	2x39W	3000mm	4,5
VB6.613.332.27	argento hacca	2700K	2x39W	3000mm	4,5
VB6.613.321.27	nero55	2700K	2x26W	2000mm	3
VB6.613.322.27	argento hacca	2700K	2x26W	2000mm	3
VB6.613.311.27	nero55	2700K	2x13W	1000mm	1,5
VB6.613.312.27	argento hacca	2700K	2x13W	1000mm	1,5

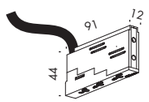
Ra	R9	ies tm/30		sdcm	Vf	lm/m	W/m	lm/W
95	90	Rf 90	Rg 98	step 2	48	1200	13	92
V0010	5,9	Ta25 °C		vita media · average life		50000 h	L80	B10

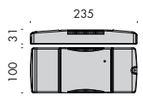
VB6.613.311.30	nero55	3000K	2x39W	3000mm	4,5
VB6.613.312.30	argento hacca	3000K	2x39W	3000mm	4,5
VB6.613.321.30	nero55	3000K	2x26W	2000mm	3
VB6.613.322.30	argento hacca	3000K	2x26W	2000mm	3
VB6.613.331.30	nero55	3000K	2x13W	1000mm	1,5
VB6.613.332.30	argento hacca	3000K	2x13W	1000mm	1,5

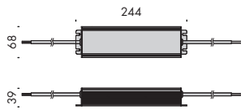
Ra	R9	ies tm-30		sdcm	Vf	lm/m	W/m	lm/W
95	90	Rf 93	Rg 102	step 2	48	1250	13	96
V0011	5,9	Ta25 °C		vita media · average life		50000 h	L80	B10

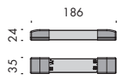












A11 accessori. accessories.			
Vb6.613.46	giunto lineare elettrificato linear electrified joint	nero · black	0,2
Vb6.613.47	giunto lineare meccanico linear mechanical joint	nero · black	0,2

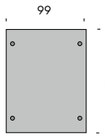
A11 componenti. components.		
Vb6.613.40	adattatore di alimentazione nero con 8 contatti black feeding head with 8 contacts	0,5

A11 alimentatori spot. power supplies. 240V 50-60Hz/48V			
t4.057	on/off	75W	0,15
t4.058	on/off	150W	0,15

A11 accessori linee di luce. accessories.			
t4.053	alimentatore on/off 240V/48Vdc · power supply	240W	0,1
t4.213.f	converter dali 48Vdc/48Vdc	240W	1,1

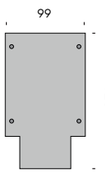
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tappi di chiusura. closing caps. ☆ CE



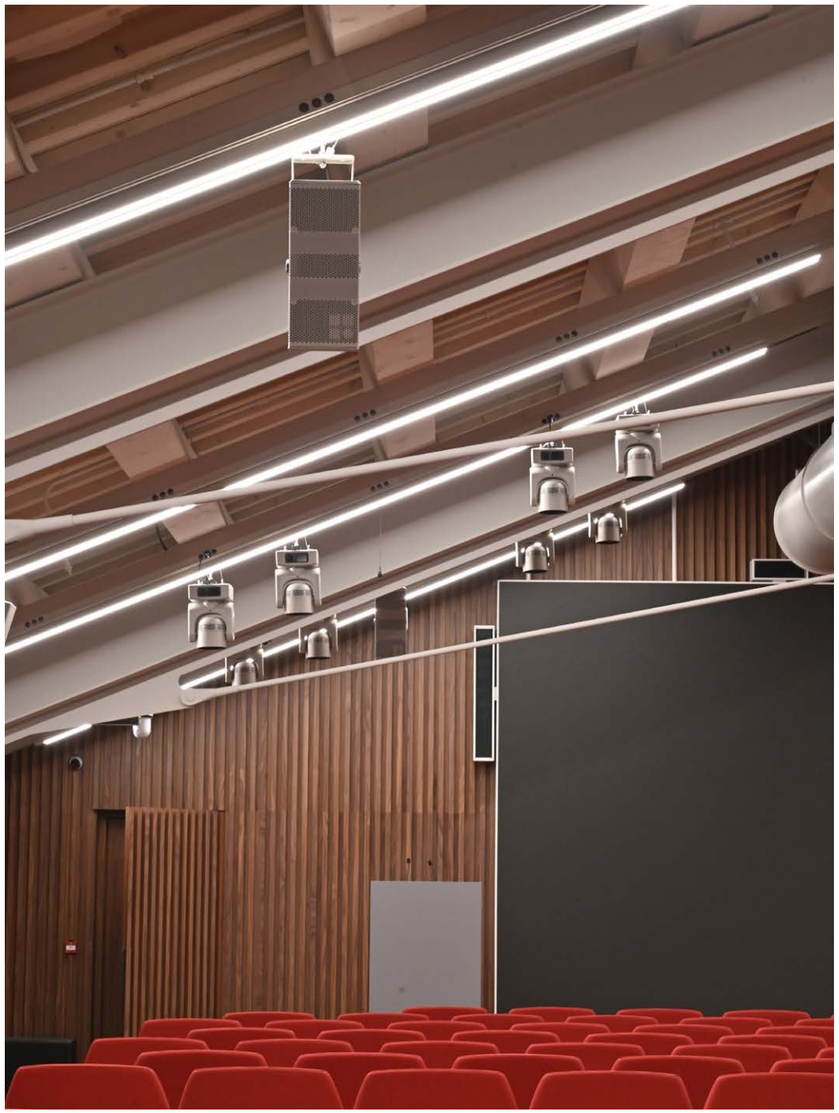
VB9.668.52 argento hacca

VB9.668.51 nero55

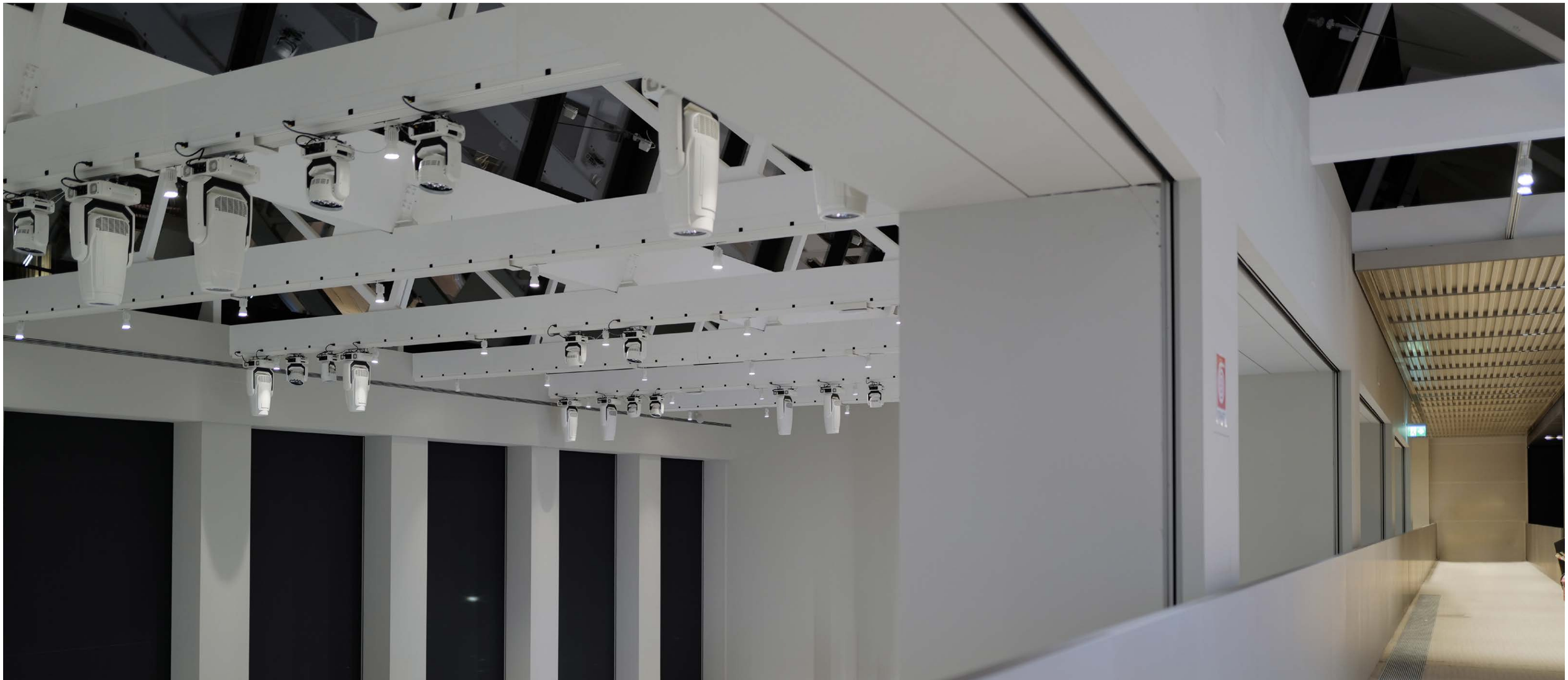


VB9.668.56 argento hacca

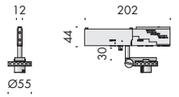
VB9.668.55 nero55



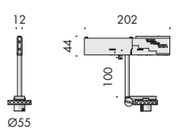
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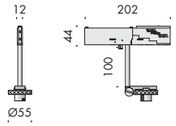
n55 A1/A11 interfaccia orientabile 30 controllo intelligente			48Vdc			
Vb6.613.50	350/500/700/1050mA	nero55	on/off	n55	0,3	
Vb6.613.51	350/500/700/1050mA	argento hacca	on/off	n55	0,3	



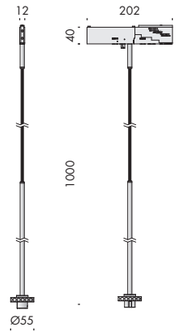
n55 A1/A11 interfaccia orientabile 100			48Vdc			
Vb6.613.55.D4	350/500/700/1050mA	nero55	casambi	n55	0,4	
Vb6.613.56.D4	350/500/700/1050mA	argento hacca	casambi	n55	0,4	



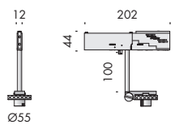
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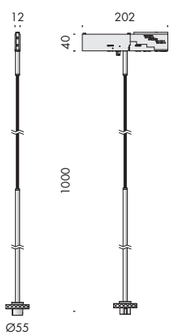
n55 A1/A11 interfaccia orientabile 100 controllo intelligente	48Vdc					
Vb6.613.52	350/500/700/1050mA	nero55	on/off	n55	0,4
Vb6.613.54	350/500/700/1050mA	argento hacca	on/off	n55	0,4



n55 A1/A11 interfaccia sospensione controllo intelligente	48Vdc					
Vb6.613.170	350/500/700/1050mA	nero55	on/off	n55	0,4
Vb6.613.171	350/500/700/1050mA	argento hacca	on/off	n55	0,4



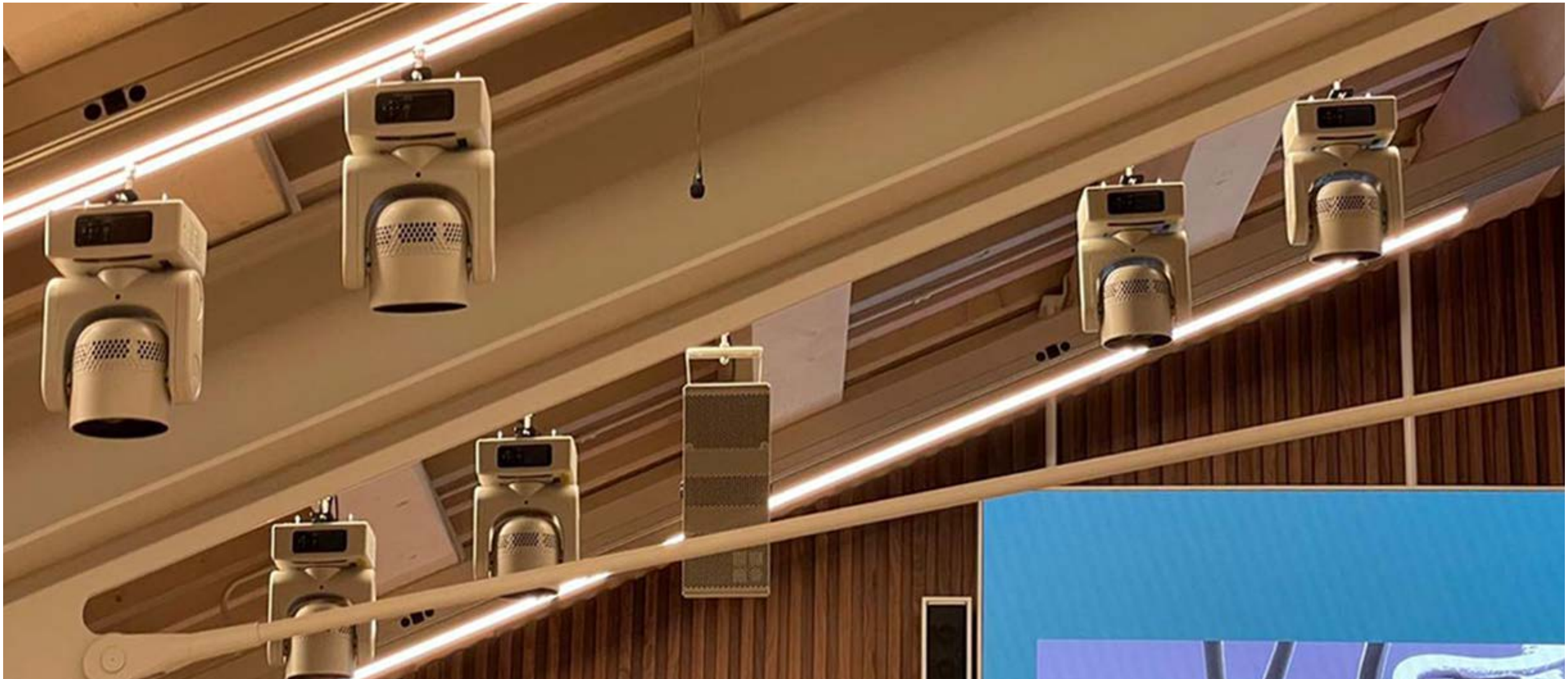
n55 A1/A11 interfaccia orientabile 100	48Vdc					
Vb6.613.57.D4	350/500/700/1050mA	nero55	casambi	n55	0,4
Vb6.613.58.D4	350/500/700/1050mA	argento hacca	casambi	n55	0,4



n55 A1/A11 interfaccia sospensione	48Vdc					
Vb6.613.175.D4	350/500/700/1050mA	nero55	casambi	n55	0,4
Vb6.613.176.D4	350/500/700/1050mA	argento hacca	casambi	n55	0,4

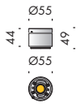
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propulsore dinamico n55 55/350e IP20

Vb9.580.150.27	argento hacca	2700K	les19	n55	0,2
Vb9.580.151.27	nero55	2700K	les19	n55	0,2

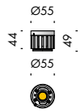
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19	Ta25 °C		vita media · average life			70000 h	L80	B10

Vb9.580.150.30	argento hacca	3000K	les19	n55	0,2
Vb9.580.151.30	nero55	3000K	les19	n55	0,2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10

Vb9.580.150.30v	argento hacca	3000VbK	les19	n55	0,2
Vb9.580.151.30v	nero55	3000VbK	les19	n55	0,2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	350	27,6	1240	9,7	128
xm007	les19	Ta25 °C		vita media · average life			70000 h	L80	B10



propulsore dinamico n55 55/350 IP20

Vb9.580.50.27	argento hacca	2700K	les19	n55	0,2
Vb9.580.51.27	nero55	2700K	les19	n55	0,2

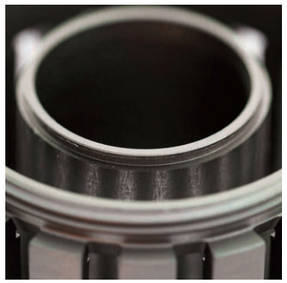
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm000	les19	Ta25 °C		vita media · average life			70000 h	L80	B10

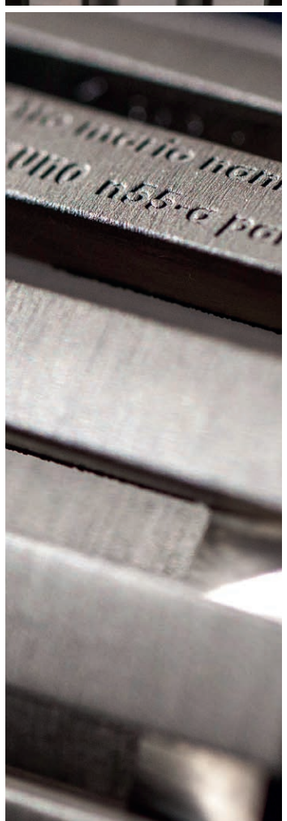
Vb9.580.50.30	argento hacca	3000K	les19	n55	0,2
Vb9.580.51.30	nero55	3000K	les19	n55	0,2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	350	27,6	1240	9,7	128
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10

Vb9.580.50.30v	argento hacca	3000VbK	les19	n55	0,2
Vb9.580.51.30v	nero55	3000VbK	les19	n55	0,2

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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

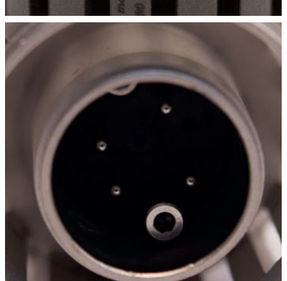


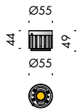


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propulsore dinamico n55 55/500				IP20					
Vb9.580.62.27	argento hacca	2700K		les19 ●	n55	0,2			
Vb9.580.63.27	nero55	2700K		les19 ●	n55	0,2			

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

Vb9.580.62.30	argento hacca	3000K		les19 ●	n55	0,2			
Vb9.580.63.30	nero55	3000K		les19 ●	n55	0,2			

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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

Vb9.580.62.30v	argento hacca	3000VbK		les19 ●	n55	0,2			
Vb9.580.63.30v	nero55	3000VbK		les19 ●	n55	0,2			

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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



propulsore dinamico n55 55/500				IP20					
Vb9.580.101.27	argento hacca	2700K		les9 ●	n55	0,2			
Vb9.580.102.27	nero55	2700K		les9 ●	n55	0,2			

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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

Vb9.580.101.30	argento hacca	3000K		les9 ●	n55	0,2			
Vb9.580.102.30	nero55	3000K		les9 ●	n55	0,2			

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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

Vb9.580.101.30v	argento hacca	3000VbK		les9 ●	n55	0,2			
Vb9.580.102.30v	nero55	3000VbK		les9 ●	n55	0,2			

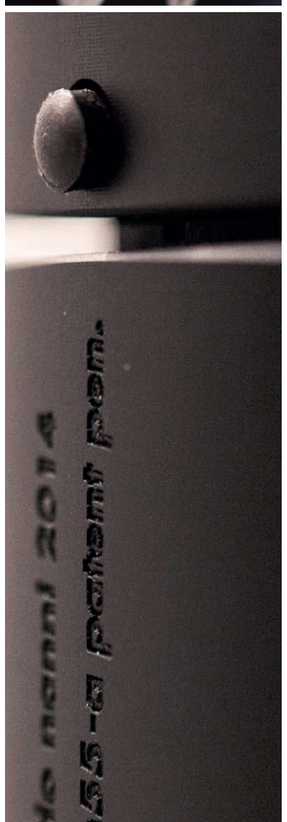
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	500	27,1	800	13,6	59
xe007	les9 ●	Ta25 °C		vita media · average life			70000 h	L80	B10





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propulsore dinamico n55 65/500e IP20

Vb9.580.154.27	argento hacca	2700K	les19	n55	0,3
Vb9.580.155.27	nero55	2700K	les19	n55	0,3

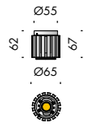
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	500	27,9	1580	14,0	113
xm000	les19	Ta25 °C		vita media · average life			70000 h	L80	B10

Vb9.580.154.30	argento hacca	3000K	les19	n55	0,3
Vb9.580.155.30	nero55	3000K	les19	n55	0,3

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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

Vb9.580.154.30v	argento hacca	3000VbK	les19	n55	0,3
Vb9.580.155.30v	nero55	3000VbK	les19	n55	0,3

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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



propulsore dinamico n55 65/700 IP20

Vb9.580.54.27	argento hacca	2700K	les19	n55	0,3
Vb9.580.55.27	nero55	2700K	les19	n55	0,3

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	700	28,4	2140	19,9	108
xm000	les19	Ta25 °C		vita media · average life			70000 h	L80	B10

Vb9.580.54.30	argento hacca	3000K	les19	n55	0,3
Vb9.580.55.30	nero55	3000K	les19	n55	0,3

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

Vb9.580.54.30v	argento hacca	3000VbK	les19	n55	0,3
Vb9.580.55.30v	nero55	3000VbK	les19	n55	0,3

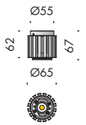
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 93	Rg 106	step 1	700	28,4	2140	19,9	108
xm007	les19	Ta25 °C		vita media · average life			70000 h	L80	B10





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propulsore dinamico n55 65/700 IP20

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

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

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

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

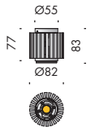
Vb9.580.107.30 nero55 3000K les9 ● n55 0,3

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

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

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

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



propulsore dinamico n55 82/1050 IP20

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

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

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

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

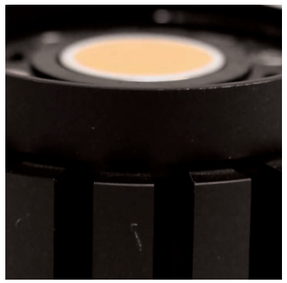
Vb9.580.59.30 nero55 3000K les19 ● n55 0,5

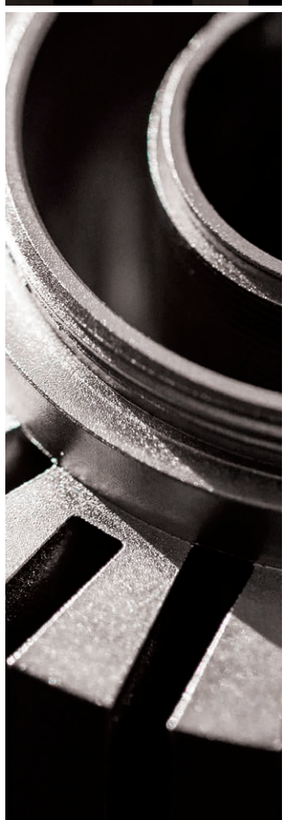
Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	lm	W	lm/W
98	98	Rf 96	Rg 103	step 1	1050	29,0	3000	30,5	98
xm001	les19 ●	Ta25 °C		vita media · average life			70000 h	L80	B10

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

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

Ra	R9	ies tm-30		sdcm	mA	$V_{f\,(min)}$	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

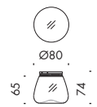
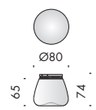
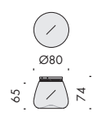
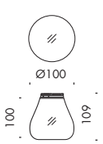
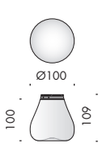
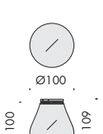


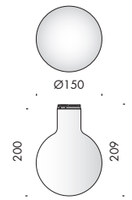
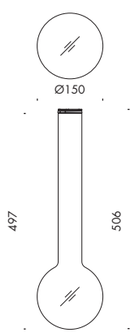


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marionanni		☆	CE	
				
Vb9.580.01.t	hm01 trasparente · transparent	n55		0,05
				
Vb9.580.01.s	hm01 sabbiata · sanded	n55		0,05
				
Vb9.580.01.b	hm01 bianco latte · milk white	n55		0,05
				
Vb9.580.02.t	hm02 trasparente · transparent	n55		0,1
				
Vb9.580.02.s	hm02 sabbiata · sanded	n55		0,1
				
Vb9.580.02.b	hm02 bianco latte · milk white	n55		0,1

marionanni		☆	CE	
				
Vb9.580.03.s	mn01 sabbiato · 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 sabbiato · transparent sanded	n55		0,1



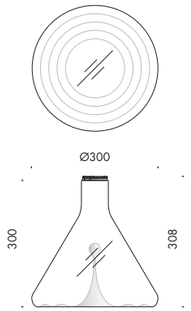
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david chipperfield ☆ CE

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



max lam ☆ CE

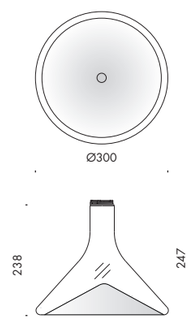
Vb9.580.13.t	ml01 trasparente · transparent	n55	1,4







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

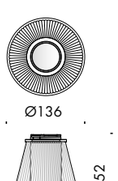


gio tirotto ☆ CE

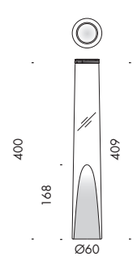
Vb9.580.17.t	gt01 trasparente, sabbiato · transparent, sanded	n55	1







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



domenico de palo ☆ CE

Vb9.580.114.t	ddp01 trasparente,sabbiato · transparent, sanded	n55	0,5

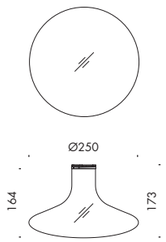


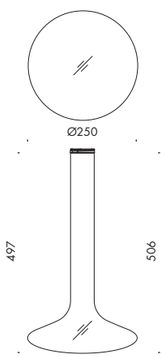
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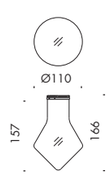


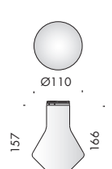




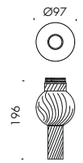


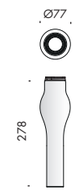


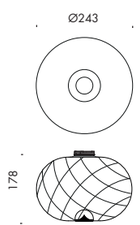


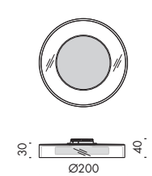


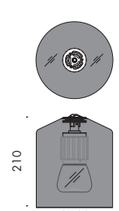
peter zumthor			☆ CE	
Vb9.580.08.t	pz01 trasparente · transparent	n55		0,3
Vb9.580.10.t	pz02 trasparente · transparent	n55		0,6
Vb9.580.11.t	pz03 trasparente · transparent	n55		0,2
Vb9.580.11.s	pz03 sabbiato · sanded	n55		0,2











mirko spaccapanico			☆ CE	
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

neri&hu			☆ CE	
Vb9.580.116.ts	nh01 trasparente, sabbiato · transparent, sanded	n55		0,9

luigi lanzi			☆ CE	
Vb9.580.170	ll01 nero fumè · black smoke	n55		1,6

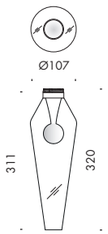
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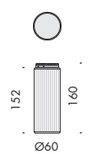


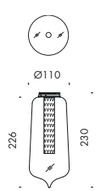


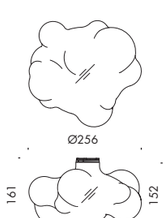












tzach cohen ☆ CE

Vb9.580.180.ts	tc01 trasparente, sabbiato · transparent, sanded	n55	0,4

al-jawad pike ☆ CE

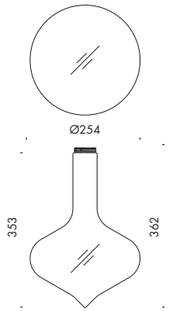
Vb9.580.18.tr	ajp01 trasparente, rigato · transparent, striped	n55	0,2

marcio kogan ☆ CE

Vb9.580.111.t	mk01 trasparente · transparent	n55	0,4

winy maas ☆ CE

Vb9.580.09.t	wm01 trasparente · transparent	n55	0,6







rdai ☆ CE

Vb9.580.12.t	rdai01 trasparente · transparent	n55	0,6



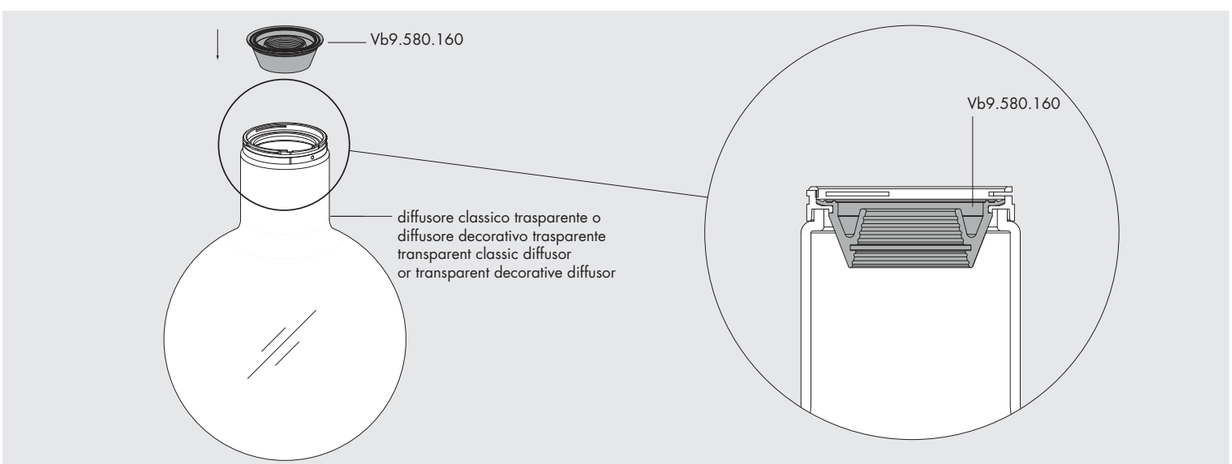
kengo kuma ☆ CE

Vb9.580.07.c	kk01 cristallo · crystal	n55	0,3



accessori per diffusore trasparente. transparent diffusor accessories. ☆ CE

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



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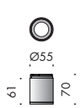




spot35				☆	CE	
Vb9.580.21	argento hacca	87° les19		n55		0,1
Vb9.580.22	nero55	87° les19		n55		0,1
Vb9.580.22.b	my bianco	87° les19		n55		0,1



spot55x37				☆	CE	
Vb9.580.121	argento hacca	18° les9		n55		0,1
Vb9.580.122	nero55	18° les9		n55		0,1
Vb9.580.122.b	my bianco	18° les9		n55		0,1
Vb9.580.123	argento hacca	23° les9	30° les19	n55		0,1
Vb9.580.124	nero55	23° les9	30° les19	n55		0,1
Vb9.580.124.b	my bianco	23° les9	30° les19	n55		0,1
Vb9.580.125	argento hacca	36° les9	38° les19	n55		0,1
Vb9.580.126	nero55	36° les9	38° les19	n55		0,1
Vb9.580.126.b	my bianco	36° les9	38° les19	n55		0,1



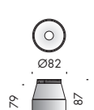
spot55x61				☆	CE	
Vb9.580.25	argento hacca	36° les19		n55		0,2
Vb9.580.26	nero55	36° les19		n55		0,2
Vb9.580.26.b	my bianco	36° les19		n55		0,2
Vb9.580.27	argento hacca	47° les19		n55		0,2
Vb9.580.28	nero55	47° les19		n55		0,2
Vb9.580.28.b	my bianco	47° les19		n55		0,2

accessori. accessories.			☆	CE	
Vb9.580.91	frangiluce nido d'ape · honeycomb louvre				0,01
Vb9.580.92	lente ellittica · elliptical lens				0,04





spot82x35				☆	CE	
Vb9.580.131	argento hacca	13° les9		n55		0,1
Vb9.580.132	nero55	13° les9		n55		0,1
Vb9.580.137	my bianco	13° les9		n55		0,1
Vb9.580.133	argento hacca	19° les9		n55		0,1
Vb9.580.134	nero55	19° les9		n55		0,1
Vb9.580.138	my bianco	19° les9		n55		0,1
Vb9.580.135	argento hacca	23° les9	31° les19	n55		0,1
Vb9.580.136	nero55	23° les9	31° les19	n55		0,1
Vb9.580.141	my bianco	23° les9	31° les19	n55		0,1
Vb9.580.139	argento hacca	35° les9	42° les19	n55		0,1
Vb9.580.140	nero55	35° les9	42° les19	n55		0,1
Vb9.580.142	my bianco	35° les9	42° les19	n55		0,1



spot82x79				☆	CE	
Vb9.580.31	argento hacca	23° les19		n55		0,2
Vb9.580.32	nero55	23° les19		n55		0,2
Vb9.580.32.b	my bianco	23° les19		n55		0,2
Vb9.580.33	argento hacca	37° les19		n55		0,2
Vb9.580.34	nero55	37° les19		n55		0,2
Vb9.580.34.b	my bianco	37° les19		n55		0,2
Vb9.580.35	argento hacca	46° les19		n55		0,2
Vb9.580.36	nero55	46° les19		n55		0,2
Vb9.580.36.b	my bianco	46° les19		n55		0,2

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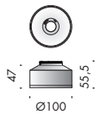








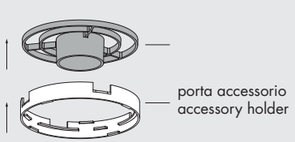
accessori spot82. accessories. ☆ CE		
Vb9.580.86	frangiluce nido d'ape · honeycomb louvre	0,01
Vb9.580.87	lente ellittica · elliptical lens	0,05
Vb9.580.88	vetro albarino · albarino glass	0,05
Vb9.580.165	anti abbagliamento · anti-glare	0,03



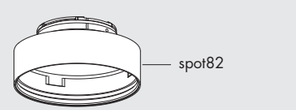
spot100 ☆ CE					
Vb9.580.37	argento hacca	10° les9	16° les19	n55	0,1
Vb9.580.38	nero55	10° les9	16° les19	n55	0,1
Vb9.580.38.b	my bianco	10° les9	16° les19	n55	0,1
Vb9.580.39	argento hacca	22° les9	25° les19	n55	0,1
Vb9.580.40	nero55	22° les9	25° les19	n55	0,1
Vb9.580.40.b	my bianco	22° les9	25° les19	n55	0,1
Vb9.580.41	argento hacca		40° les19	n55	0,1
Vb9.580.42	nero55		40° les19	n55	0,1
Vb9.580.42.b	my bianco		40° les19	n55	0,1
Vb9.580.43	argento hacca		54° les19	n55	0,1
Vb9.580.44	nero55		54° les19	n55	0,1
Vb9.580.44.b	my bianco		54° les19	n55	0,1



















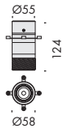




accessori spot100. accessories. ☆ CE		
Vb9.580.93	frangiluce nido d'ape · honeycomb louvre	0,01
Vb9.580.94	lente ellittica · elliptical lens	0,05

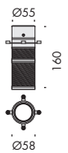
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n55 spot sagomatore fisso



VB9.580.127	sagomatore · profile spot	les 9	n55	0,7

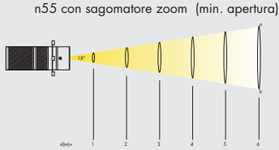
n55 spot sagomatore zoom



VB9.580.128	sagomatore · profile spot	les 9	n55	0,7

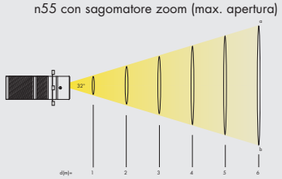
propulsore dinamico 700mA

n55 con sagomatore zoom (min. apertura)



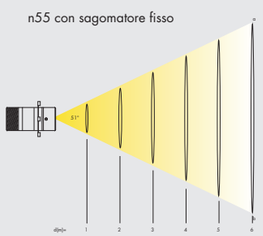
d (m)	ab (m)	E_{max} (lx)	E_{med} (lx)
1	0,32	9980	6437
2	0,62	2495	1609
3	0,94	1109	715
4	1,26	624	402
5	1,58	399	257
6	1,88	277	179

n55 con sagomatore zoom (max. apertura)



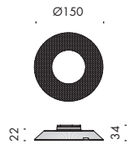
d (m)	ab (m)	E_{max} (lx)	E_{med} (lx)
1	0,58	4104	2950
2	1,14	1026	737
3	1,72	456	328
4	1,14	256	184
5	2,86	164	118
6	3,42	114	82

n55 con sagomatore fisso



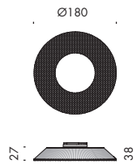
d (m)	ab (m)	E_{max} (lx)	E_{med} (lx)
1	0,96	1713	1141
2	1,92	428	285
3	2,88	190	127
4	3,84	107	71
5	4,80	69	46
6	5,76	48	32

lensoptica amP150



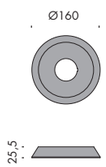
Vb9.518.91	fascio stretto · narrow beam	13° 22°	les9 les19	0,3
Vb9.518.92	fascio largo · wide beam	51°	les19	0,3

lensoptica amP180



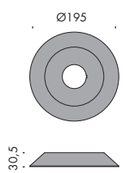
Vb9.518.81	fascio stretto · narrow beam	10° 15°	les9 les19	0,6
Vb9.518.82	fascio medio · medium beam	41°	les19	0,6
Vb9.518.83	fascio largo · wide beam	53°	les19	0,6
Vb9.518.84	fascio ellittico · elliptical beam	20°x55°	les19	0,6

riflettore in metallo 150



Vb9.518.95.n	nero55	0,1
Vb9.518.95.mb	my bianco	0,1
Vb9.518.95.h	argento hacca	0,1

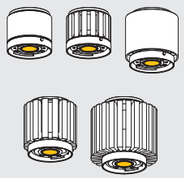
riflettore in metallo 180



Vb9.518.96.n	nero55	0,1
Vb9.518.96.mb	my bianco	0,1
Vb9.518.96.h	argento hacca	0,1

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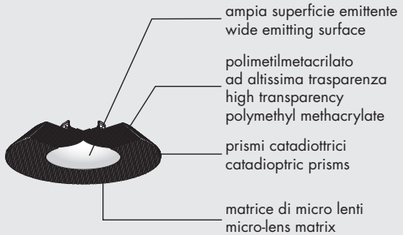
propulsore dinamico n55



riflettore in metallo · metal reflector



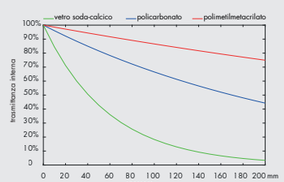
lensoptica amP



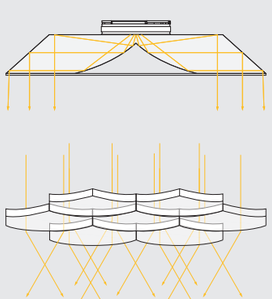
lensoptica amP è il risultato di una ricerca sviluppata da Viabizzuno su progetto david chipperfield architects con lo studio internazionale di ingegneria arup per fornire alle sorgenti luminose elettroniche un'ottica ad alta efficienza in grado di avere sia una luce concentrata che diffusa.
l'alta efficienza 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.

materiale	coefficiente d'assorbimento α
vetro soda calcico	0,017 mm^{-1}
policarbonato	0,004 mm^{-1}
polimetilmetacrilato	0,0014 mm^{-1}

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 $T_{(x)} = e^{-\alpha x}$

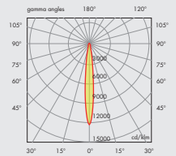


lensoptica amP è allo stesso tempo una lente e un riflettore, perché i raggi di luce subiscono rifrazione e riflessione totale interna. per questa caratteristica tecnica riesce a coniugare alta efficienza e accurato controllo direzionale della luce.
lensoptica amP is both a lens and a reflector at the same time, because the rays of light undergo refraction and total internal reflection. for this technical charactrestic it combines high efficiency and accurate directional control of light.

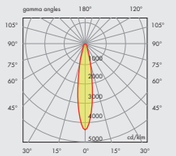


la superficie emittente di **lensoptica amP** è dotata di una matrice di microlenti.
ogni microlente riceve un fascio collimato e in funzione della curvatura ne allarga l'apertura angolare in modo controllato.
la sovrapposizione dei contributi delle singole microlenti produce una distribuzione d'illuminamento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

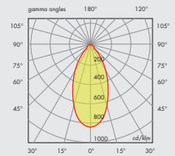
lensoptica amP150
13° les9
fascio stretto · narrow beam



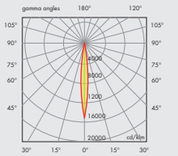
lensoptica amP150
les19
fascio stretto · narrow beam



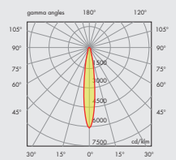
lensoptica amP150 51°
les19
fascio largo · wide beam



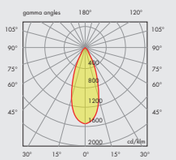
lensoptica amP180 10°
les9
fascio stretto · narrow beam



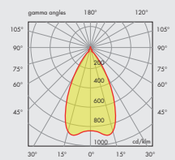
lensoptica amP180 15°
les19
fascio stretto · narrow beam



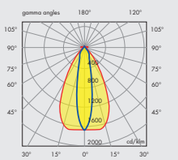
lensoptica amP180 41°
les19
fascio medio · medium beam



lensoptica amP180 53°
les19
fascio largo · wide beam



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



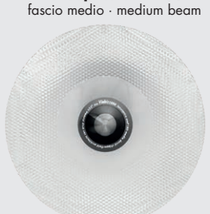
lensoptica amP150
fascio stretto · narrow beam



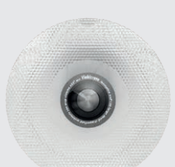
lensoptica amP180
fascio stretto · narrow beam



lensoptica amP180
fascio medio · medium beam



lensoptica amP150
fascio largo · wide beam



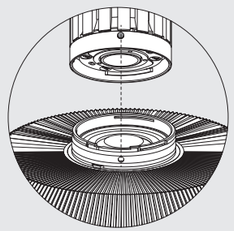
lensoptica amP180
fascio largo · wide beam

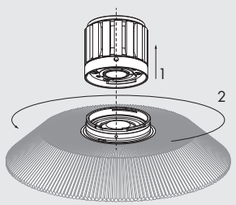


lensoptica amP180
fascio ellittico · elliptical beam

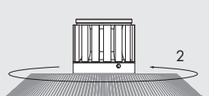


lensoptica amP
installazione · mounting



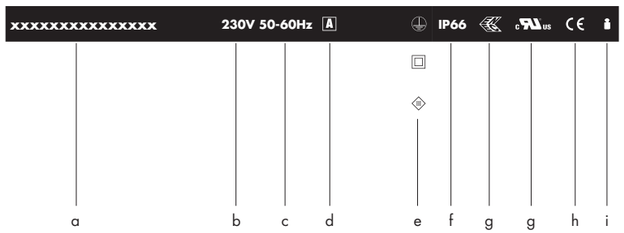






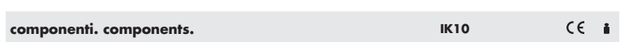
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lettura delle tabelle tecniche how to read technical tables

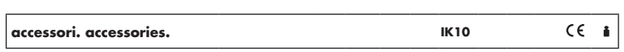


bandella tecnica. posizioni standard simbologie.
data plate. standard arrangement of symbols.

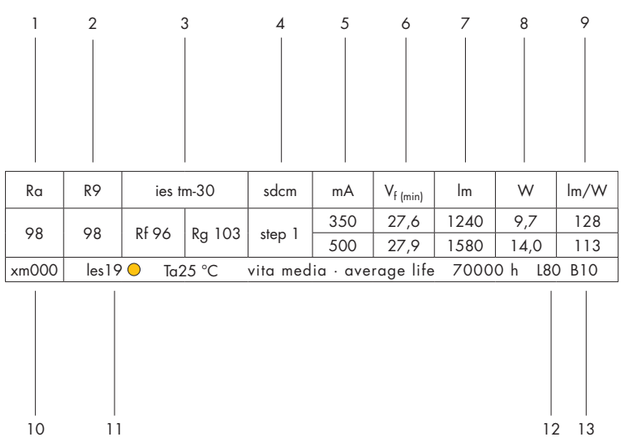
a	*nome apparecchio di illuminazione* · light fitting name
b	*tensione di alimentazione* · supply rating (Volt)
c	*frequenza di alimentazione* · supply frequency (Hertz)
d	*alimentatore incluso o escluso* · power supply included or not included
e	*classe di isolamento* · insulation class
f	*grado di 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 emmitting surface (mm)
12	*% flusso residuo a fine vita* · end life % flux
13	*% consentita sotto limite* · allowed % under limit

gradi di protezione protection degrees

IP0X *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*
rotected 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

ta *tavolo* · table

tr *terra* · floor standing

s *soffitto* · ceiling

p *parete* · wall

sp *sospensione* · suspension

bin *binario* · track

in *incasso* · recessed

st *scomparsa totale* · fully concealed

s+e *segnaletica+emergenza* · signalling system+emergency

bat *portatili autoalimentati a batteria* · portable self-powered with battery

sis *sistemi* · systems

pa *palo* · *pole*

pt *paletto* · bollard

sd *seduta* · sitting

disponibile su · available on *Viabizzuno applight* *www.Viabizzuno.com* *Viabizzuno online*

classe I. solo isolamento fondamentale, le parti conduttrici accessibili sono collegate ad un conduttore di terra. messa a terra tassativa
class I. only basic insulation, accessible conductors are earthed. earthing compulsory

classe II. all'isolamento principale è aggiunto un secondo isolamento oppure ai due isolamenti è sostituito un isolamento rinforzato. messa a terra esclusa
class II. basic insulation plus second insulation or both are replaced by reinforced insulation. earthing excluded

classe III. alimentazione effettuata con bassissima tensione di sicurezza; sono escluse tensioni superiori a 50V-50Hz. messa a terra non prevista.
class III. very low safety supply tension; not to be used over 50V-50Hz. earthing excluded.

prodotto conforme alle direttive europee · produced in compliance with ec directives

marchio di certificazione europea. certifica che il prodotto è conforme alle norme europee sulla sicurezza
component approved for north american market and suitable to be used and approved as part of a more complex system

componente certificato per il mercato nord americano idoneo ad essere utilizzato e valutato come parte di in un sistema più complesso
component approved for north american market and suitable to be used and approved as part of a more complex system

apparecchio di illuminazione approvato da kema · kema approved light fitting

prodotto conforme agli standard presenti nel regno unito che regolamentano la sicurezza e la qualità dell'acqua · product complies with uk standards set out by water regulations

apparecchio di illuminazione certificato secondo le normative vigenti in polonia che regolamentano i dispositivi di sicurezza antincendio
certified light fitting according to the regulations about devices for fire safety in force in poland

prodotto idoneo per essere commercializzato nel mercato cinese · product suitable for the china market

prodotto finito idoneo per essere commercializzato nel mercato nord americano · listed product suitable for the north american market

prodotto conforme alla legislazione vigente nel regno unito · produced in compliance with UK legislation

apparecchio di illuminazione certificato per il mercato cinese
light fitting certified for china market

vetro opalino · opal glass

vetro sabbiato · sanded glass

vetro nero fumè · black smoke glass

vetro trasparente · transparent glass

vetro bianco latte · white milk glass

cristallo · crystal

policarbonato opalino · opal polycarbonate diffuser

carrabile · drive over

A *alimentatore incluso* · power supply included

A *alimentatore escluso* · power supply not included

AR *alimentatore remoto incluso* · remote power supply included

Ai *alimentatore elettronico con controllo intelligente incluso* · electronic power supply with smart control included

AiR *alimentatore elettronico con controllo intelligente incluso, da installare remoto* · electonic power supply with smart control included, to be installed remotely

AS *alimentatore a spina incluso* · plug power supply included

T *trasformatore incluso* · transformer included

T *trasformatore escluso* · transformer not included

K *kit di cablaggio* · wiring kit

K *kit di cablaggio escluso* · wiring kit not included

L *lampadina con sorgente elettronica led, ad incandescenza, alogena o fluorescente inclusa.*
bulb with led electronic source, incandescent, halogen or fluorescent included.

L *lampadina con sorgente elettronica led, ad incandescenza, alogena o fluorescente esclusa.*
bulb with led electronic source, incandescent, halogen or fluorescent not included.

Pr *propulsore dinamico n55 incluso* · included

Pr *propulsore dinamico n55 escluso* · not included

df *diffusore incluso* · diffuser included

df *diffusore escluso* · diffuser not included

possibilità di combinazione tra interfaccia n55, propulsore dinamico n55 e lampadina n55 · possible combination between n55 interface, propulsore dinamico n55 and n55 bulb

attenzione: sorgente luminosa led. non guardare mai direttamente a occhio nudo · attention: led light source. never look straight without eye protection

ff *flicker free compatibile con fotocamere digitali* · flicker free digital camera friendly

l.d. *luce diretta* · direct light

l.i. *luce indiretta* · indirect light

.d1 *dimmerazione 1-10V* · 1-10V dimmable

.d2 *dimmerazione dali* · dimmable dali

.SA *kit luce + emergenza sempre accese. attenzione: non è possibile installare nelle cassaforme laterizio*
light kit + permanently lit emergency lamp. please note: cannot be installed in brickwork housing

.SE *solo emergenza sempre accesa. attenzione: non è possibile installare nelle cassaforme laterizio*
permanently lit emergency lamp only. please note: cannot be installed in brickwork housing

peso netto · net weight (kg)