



**apparecchio di illuminazione a soffitto per interni IP20 ed esterni IP54.
realizzato in estruso di alluminio alettato, con dissipatore in pressofusione di alluminio
e piastra supporto a parete in fusione di metallo naturale verniciato a polvere diametro
Ø130mm h.130mm.**

modelli:

**amp fisso 01 Ra98 les19 IP20,
amp fisso 02 Ra98 les19 IP54,
amp orientabile Ra98 les19 IP20,
amp fisso 01 Ra 90 les17 IP20,
amp fisso 02 Ra 90 les17 IP54,
amp orientabile Ra 90 les17 IP20.**

cablato con sorgente elettronica 3000K fino a 34,2W 4166lm.

lensoptica amp: diametro Ø180mm o diametro Ø150mm.

alimentatore 220-240V 50-60Hz incluso, dimmerabile dali.

accessori: riflettori in metallo.

finiture: nero55, bianco V e argento hacca.

**IP20 rated and IP54 rated ceiling light fitting for indoor and outdoor use.
made of extruded grooved aluminium diameter Ø130mm, with die-cast aluminium heat
sink and natural metal casting powder coated wall support plate, for outdoor use.**

versions:

**amp fisso 01 Ra98 les19 IP20,
amp fisso 02 Ra98 les19 IP54,
amp orientabile Ra98 les19 IP20,
amp fisso 01 Ra 90 les17 IP20,
amp fisso 02 Ra 90 les17 IP54,
amp orientabile Ra 90 les17 IP20.**

wired with 3000K led source up to 34.2W 4166lm.

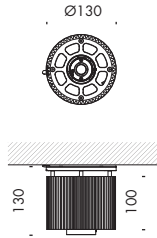
**lensoptica amp: diameter Ø180mm or diameter Ø150mm
220-240V 50-60Hz power supply included, dali dimmable.**

accessories: metal reflectors.

finishes: nero55, bianco V and argento hacca.







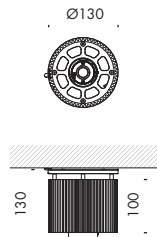
amP fisso 01 Ra98 240V 50-60Hz **A** **IP20** **CE** **i**

Vb6.618.01.30	bianco V	3000K	0,8
Vb6.618.02.30	nero55	3000K	0,8
Vb6.618.03.30	argento hacca	3000K	0,8

Ra	R9	ies tm-30		sdc	mA	V _{f (min)}	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	500	31,2	1580	15,6	101	A+
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10	

Vb6.618.21.30	bianco V	3000K	0,8
Vb6.618.22.30	nero55	3000K	0,8
Vb6.618.23.30	argento hacca	3000K	0,8

Ra	R9	ies tm-30		sdc	mA	V _{f (min)}	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	1050	32,5	3000	34	88,2	A+
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10	



amP fisso 02 Ra98 240V 50-60Hz **A** **IP54** **CE** **i**

Vb6.618.31.30	bianco V	3000K	0,8
Vb6.618.32.30	nero55	3000K	0,8
Vb6.618.33.30	argento hacca	3000K	0,8

Ra	R9	ies tm-30		sdc	mA	V _{f (min)}	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	500	31,2	1580	15,6	101	A+
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10	



amP orientabile Ra98 240V 50-60Hz **A** IP20 **CE** **i**

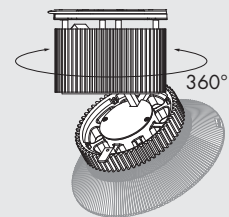
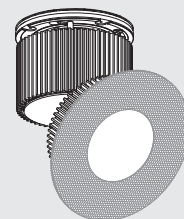
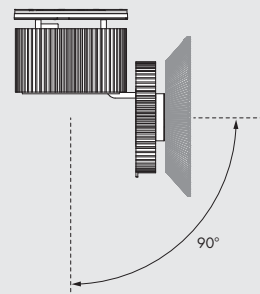
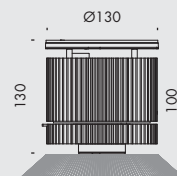
Vb6.618.81.30	bianco V	3000K	0,9
Vb6.618.82.30	nero55	3000K	0,9
Vb6.618.83.30	argento hacca	3000K	0,9

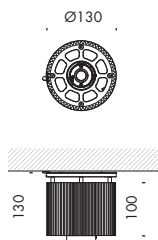
Ra	R9	ies tm-30		sdc	mA	V _f (min)	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	500	31,2	1580	15,6	101	A+
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10	

Vb6.618.91.30	bianco V	3000K	0,9
Vb6.618.92.30	nero55	3000K	0,9
Vb6.618.93.30	argento hacca	3000K	0,9

Ra	R9	ies tm-30		sdc	mA	V _f (min)	lm	W	lm/W	
98	98	Rf 96	Rg 103	step 1	850	31,1	2508	27,3	92	A+
xm001	les19	Ta25 °C		vita media · average life			70000 h	L80	B10	

gradi di rotazione
rotation degrees





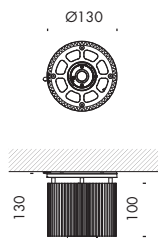
amP fisso 01 Ra90 240V 50-60Hz

Vb6.618.41.30	bianco V	3000K	0,8
Vb6.618.42.30	nero55	3000K	0,8
Vb6.618.43.30	argento hacca	3000K	0,8

Ra	ies tm-30		sdc	mA	V _{f (min)}	lm	W	lm/W	
90	Rf 90	Rg 100	step 2	500	30,8	2152	15,4	140	A++
sl011	les17	● Ta25 °C	vita media · average life		50000 h	L80	B10		

Vb6.618.61.30	bianco V	3000K	0,8
Vb6.618.62.30	nero55	3000K	0,8
Vb6.618.63.30	argento hacca	3000K	0,8

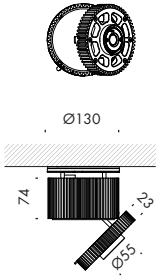
Ra	ies tm-30		sdc	mA	V _{f (min)}	lm	W	lm/W	
90	Rf 90	Rg 100	step 2	1050	32,5	4166	34,2	122	A++
sl011	les17	● Ta25 °C	vita media · average life		50000 h	L80	B10		



amP fisso 02 Ra90 240V 50-60Hz

Vb6.618.71.30	bianco V	3000K	0,8
Vb6.618.72.30	nero55	3000K	0,8
Vb6.618.73.30	argento hacca	3000K	0,8

Ra	ies tm-30		sdc	mA	V _{f (min)}	lm	W	lm/W	
90	Rf 90	Rg 100	step 2	500	30,8	2152	15,4	140	A++
sl011	les17	● Ta25 °C	vita media · average life		50000 h	L80	B10		



amp orientabile Ra90 240V 50-60Hz **A** **IP20** **CE** **i**

Vb6.618.101.30 bianco V 3000K 0,9

Vb6.618.102.30 nero55 3000K 0,9

Vb6.618.103.30 argento hacca 3000K 0,9

Ra	ies tm-30		sdc	mA	V _f (min)	lm	W	lm/W	
90	Rf 90	Rg 100	step 2	500	30,8	2152	15,4	140	A++
sl011	les17 ● Ta25 °C		vita media · average life		50000 h	L80	B10		

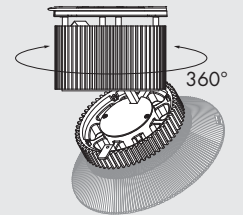
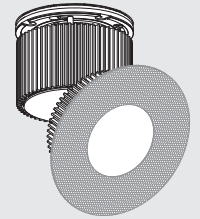
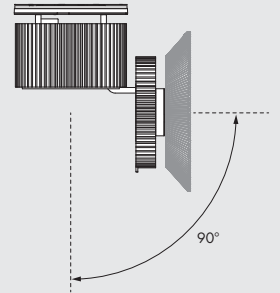
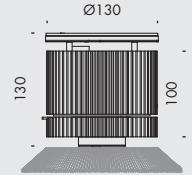
Vb6.618.111.30 bianco V 3000K 0,9

Vb6.618.112.30 nero55 3000K 0,9

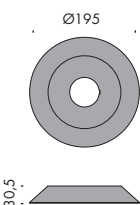
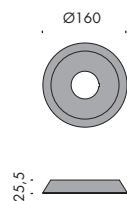
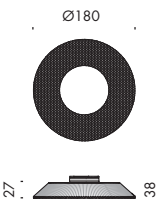
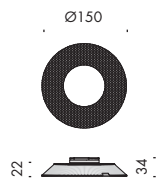
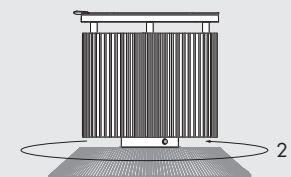
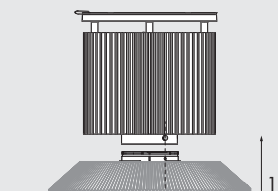
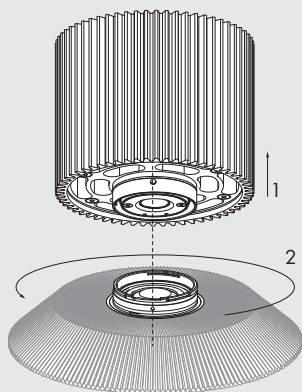
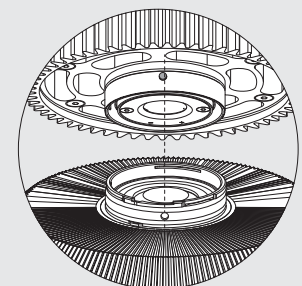
Vb6.618.113.30 argento hacca 3000K 0,9

Ra	ies tm-30		sdc	mA	V _f (min)	lm	W	lm/W	
90	Rf 90	Rg 100	step 2	850	31,9	3455	27,1	127	A++
sl011	les17 ● Ta25 °C		vita media · average life		50000 h	L80	B10		

gradi di rotazione
rotation degrees



lensoptica amP
installazione · mounting



lensoptica amP150



Vb9.518.91	fascio stretto · narrow beam	21° 22°	les17 ● 0,4 les19 ●
Vb9.518.92	fascio largo · wide beam	50° 51°	les17 ● 0,4 les19 ●

lensoptica amP180



Vb9.518.81	fascio stretto · narrow beam	15° 15°	les17 ● 0,6 les19 ●
Vb9.518.82	fascio medio · medium beam	41° 41°	les17 ● 0,6 les19 ●
Vb9.518.83	fascio largo · wide beam	53° 53°	les17 ● 0,6 les19 ●
Vb9.518.84	fascio ellittico · elliptical beam	20°x55° 20°x55°	les17 ● 0,6 les19 ●

riflettore in metallo 150



Vb9.518.95.n	nero55	0,1
Vb9.518.95.b	bianco V	0,1
Vb9.518.95.h	argento hacca	0,1

riflettore in metallo 180



Vb9.518.96.n	nero55	0,1
Vb9.518.96.b	bianco V	0,1
Vb9.518.96.h	argento hacca	0,1



lensoptica amP150
fascio stretto · narrow beam



lensoptica amP150
fascio largo · wide beam



lensoptica amP180
fascio stretto · narrow beam



lensoptica amP180
fascio medio · medium beam



lensoptica amP180
fascio largo · wide beam



lensoptica amP180
fascio ellittico · elliptical beam

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

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

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

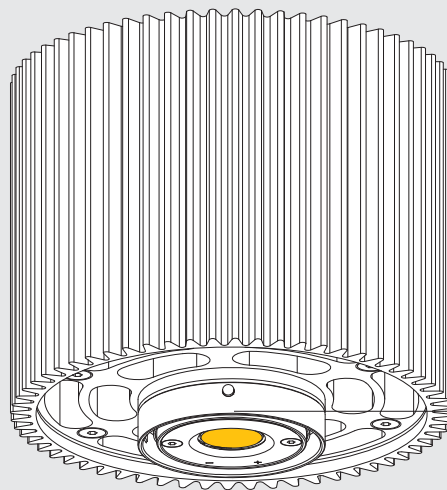
lensoptica amP is the result of a long research and development process made by Viabizzuno on a david chipperfield architects with arup, international engineering studio, design to provide electronic light sources with a high efficiency optics that can have either a focused and a diffuse light.

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

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

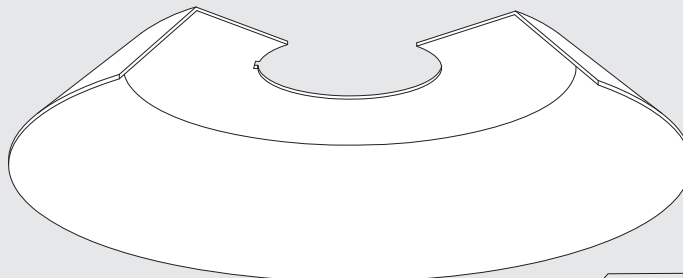
the large emitter surface limits luminance, ensuring high visual comfort and UGR<19.

propulsore dinamico · dynamic propeller



sorgente elettronica
electronic source

riflettore in metallo · metal reflector



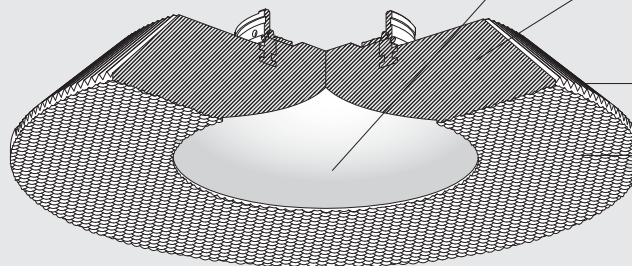
ampia superficie emittente
wide emitting surface

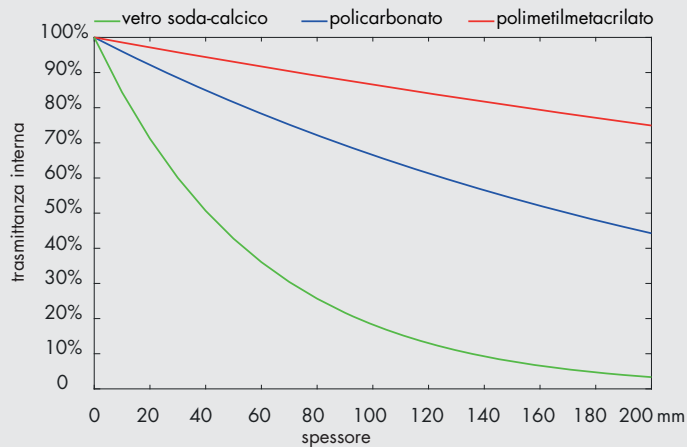
polimetilmetacrilato
ad altissima trasparenza
high transparency
polymethyl methacrylate

prismi catadiottrici
catadioptric prisms

matrice di micro lenti
micro-lens matrix

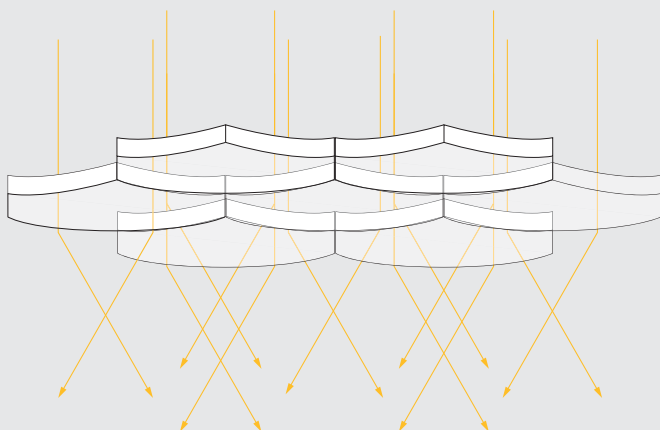
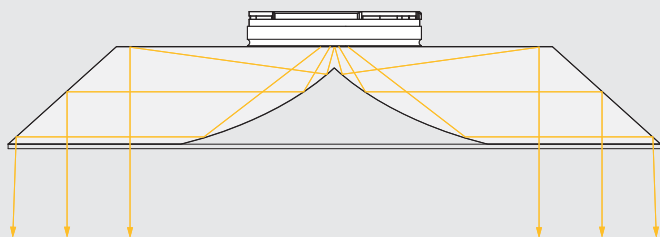
lensoptica amP





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

materiale	coefficiente d'assorbimento α
vetro soda calcico	0,017 mm ⁻¹
policarbonato	0,004 mm ⁻¹
polimetilmetacrilato	0,0014 mm ⁻¹



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.



+



lampadine classiche
classic bulbs



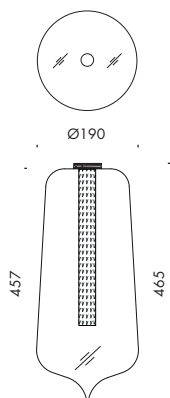
lampadine decorative
decorative bulbs



lampadine tecniche
technical bulbs

1. scegli il dissipatore amP
choose amP heat sink

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

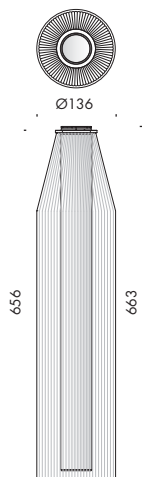


marcio kogan

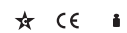


Vb9.580.112.t mk02 trasparente · transparent

0,4

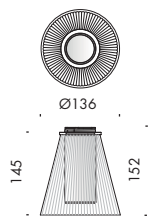


david chipperfield



Vb9.580.19.tr dc03 trasparente, rigato
transparent, striped

0,7

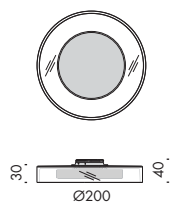


david chipperfield

☆ CE ⓘ

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

0,3

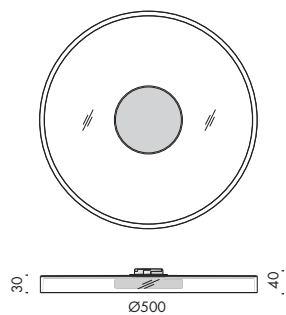


neri&hu

☆ CE ⓘ

Vb9.580.116.ts nh01 trasparente, sabbiato · transparent, sanded

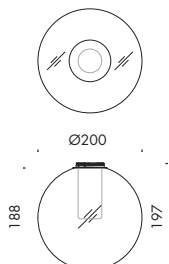
0,9



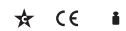
Vb9.580.117.ts nh02 trasparente, sabbiato · transparent, sanded

2,9



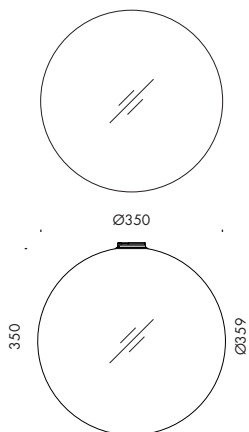


oma



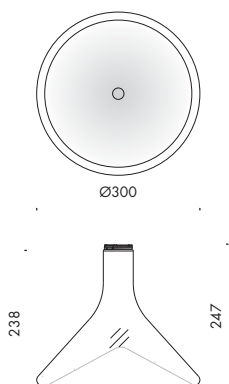
Vb9.580.14.t oma02 trasparente · transparent

0,4



Vb9.580.15.t oma03 trasparente · transparent

1,4

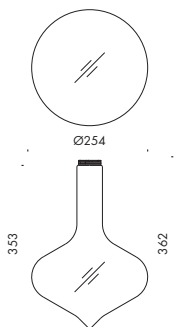


gio tirotto

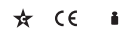


Vb9.580.17.t gt01 trasparente · transparent

1

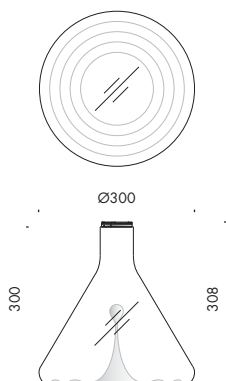


rdai



Vb9.580.12.t rdai01 trasparente · transparent

0,6

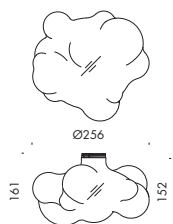


max lam



Vb9.580.13.t ml01 trasparente · transparent

1,4



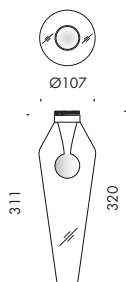
winy maas



Vb9.580.09.t wm01 trasparente · transparent

0,6





tzach cohen



Vb9.580.180.ts tc01 trasparente, sabbato - transparent, sanded

0,4

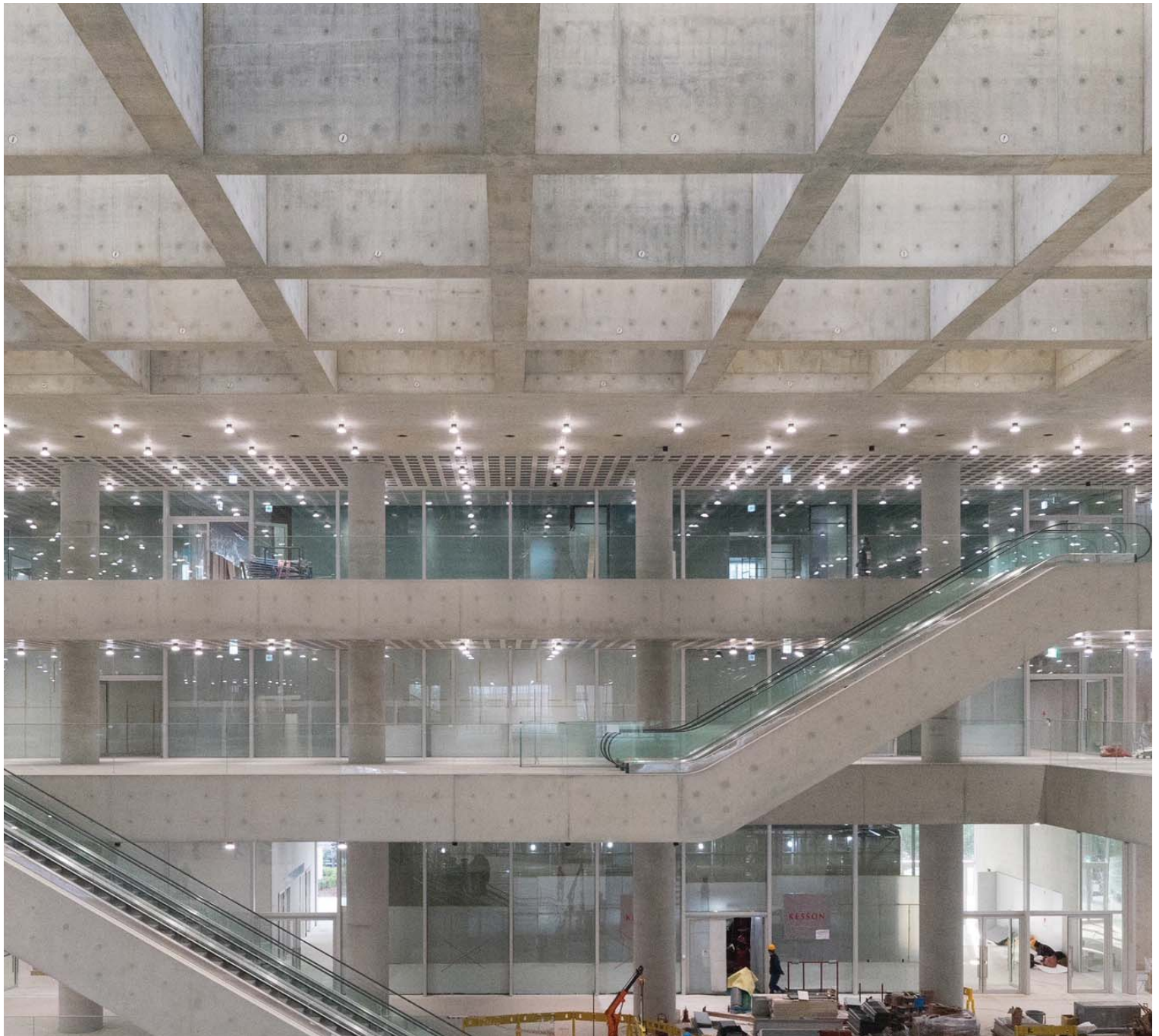


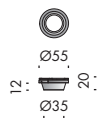
accessori per lampadina trasparente. transparent bulb accessories.



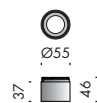
Vb9.580.160 trappola di luce antiabbagliamento nero
anti-glare black light trap

0,03

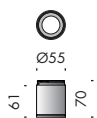




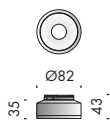
spot35		★	CE	i
Vb9.580.21	argento hacca	87° les19	●	0,1
Vb9.580.22	nero55	87° les19	●	0,1
Vb9.580.22.b	my bianco	87° les19	●	0,1



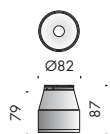
spot55x37		★	CE	i
Vb9.580.121	argento hacca			0,1
Vb9.580.122	nero55			0,1
Vb9.580.122.b	my bianco			0,1
Vb9.580.123	argento hacca	30° les19	●	0,1
Vb9.580.124	nero55	30° les19	●	0,1
Vb9.580.124.b	my bianco	30° les19	●	0,1
Vb9.580.125	argento hacca	38° les19	●	0,1
Vb9.580.126	nero55	38° les19	●	0,1
Vb9.580.126.b	my bianco	38° les19	●	0,1



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



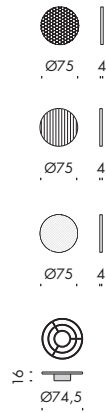
spot82x35		☆	CE	i
Vb9.580.131	argento hacca			0,1
Vb9.580.132	nero55			0,1
Vb9.580.137	my bianco			0,1
Vb9.580.133	argento hacca			0,1
Vb9.580.134	nero55			0,1
Vb9.580.138	my bianco			0,1
Vb9.580.135	argento hacca	31° les19 ●		0,1
Vb9.580.136	nero55	31° les19 ●		0,1
Vb9.580.141	my bianco	31° les19 ●		0,1
Vb9.580.139	argento hacca	42° les19 ●		0,1
Vb9.580.140	nero55	42° les19 ●		0,1
Vb9.580.142	my bianco	42° les19 ●		0,1



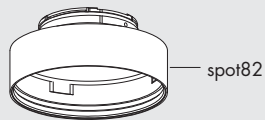
spot82x79		☆	CE	i
Vb9.580.31	argento hacca	23° les19 ●		0,2
Vb9.580.32	nero55	23° les19 ●		0,2
Vb9.580.32.b	my bianco	23° les19 ●		0,2
Vb9.580.33	argento hacca	37° les19 ●		0,2
Vb9.580.34	nero55	37° les19 ●		0,2
Vb9.580.34.b	my bianco	37° les19 ●		0,2
Vb9.580.35	argento hacca	46° les19 ●		0,2
Vb9.580.36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



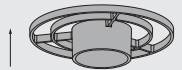
accessori spot82. accessories.



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



spot82



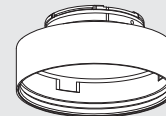
Vb9.580.165



porta accessorio
accessory holder



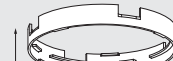
trappola di luce
light trap



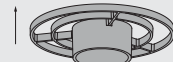
spot82



Vb9.580.88



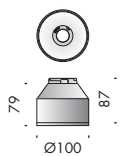
porta accessorio
accessory holder



Vb9.580.165



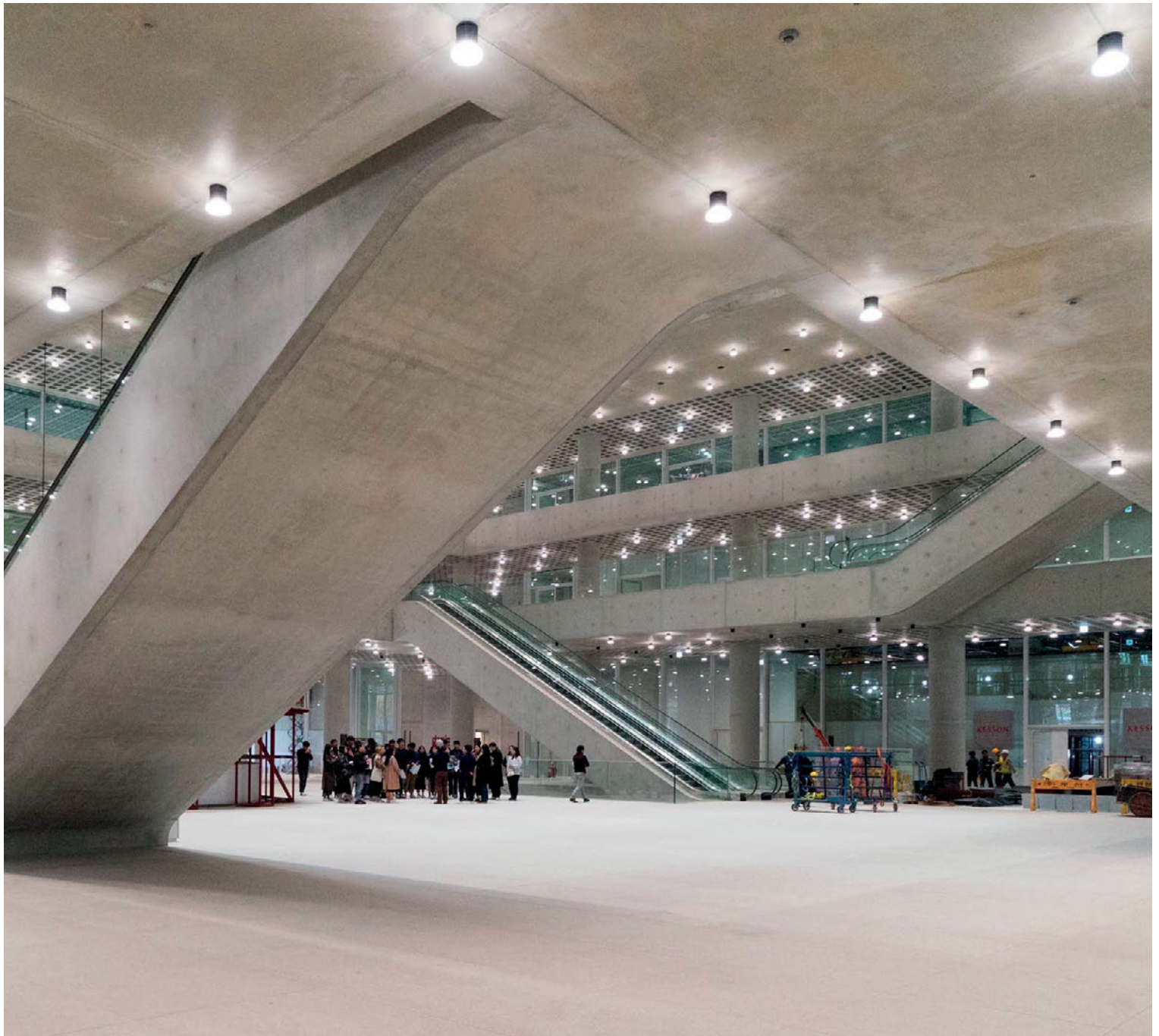
trappola di luce
light trap



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

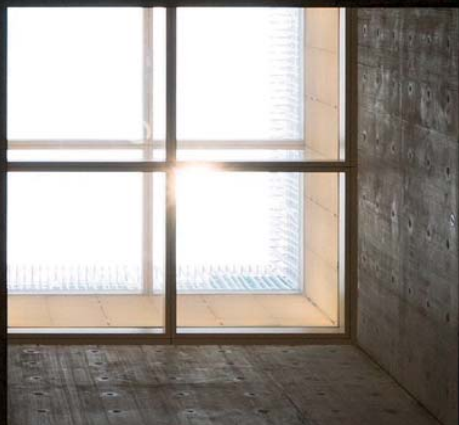


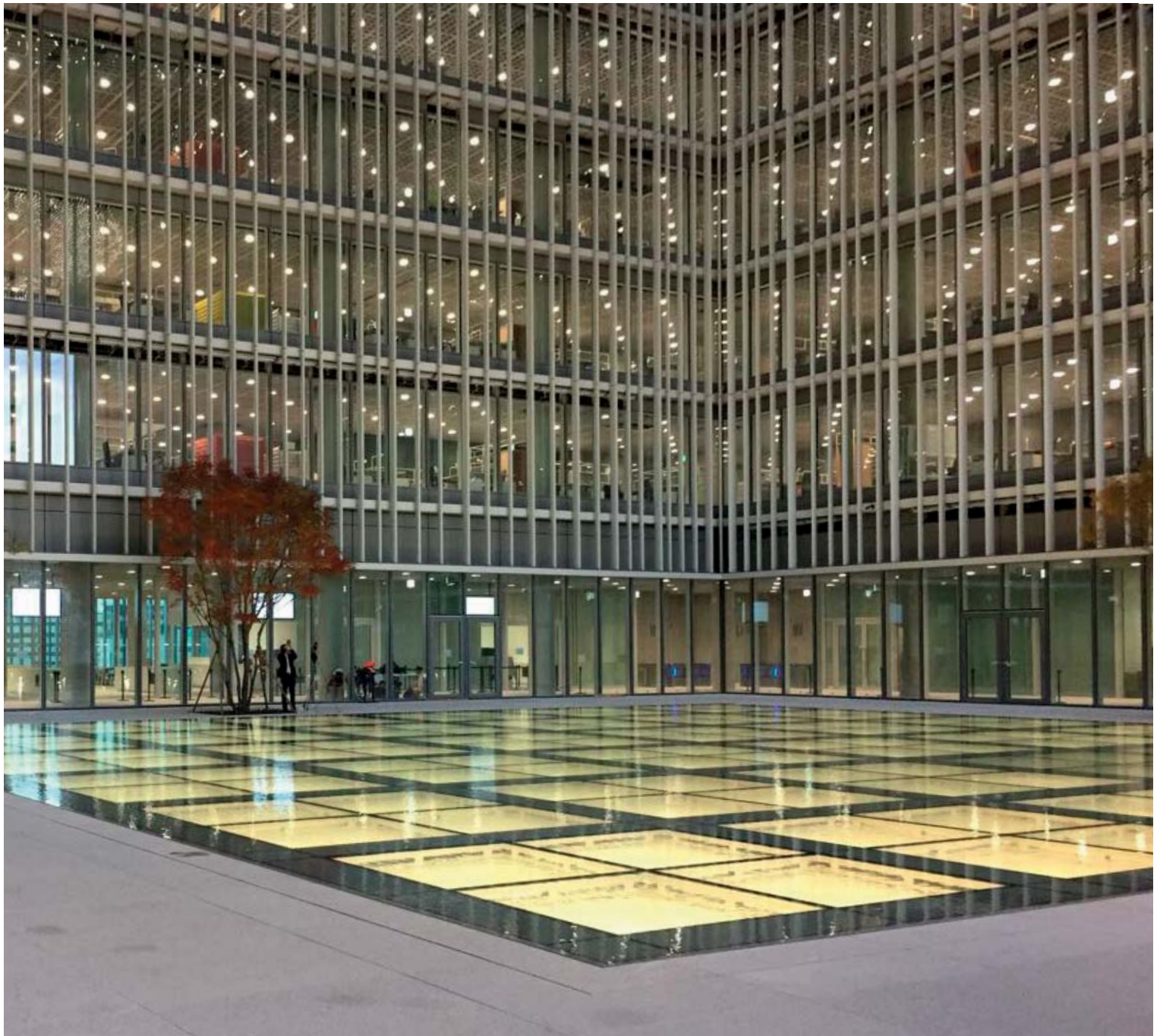
accessori spot100. accessories.		★	CE	ⓘ
Vb9.580.93	frangiluce nido d'ape · honeycomb louvre			0,01
Vb9.580.94	lente ellittica · elliptical lens			0,05

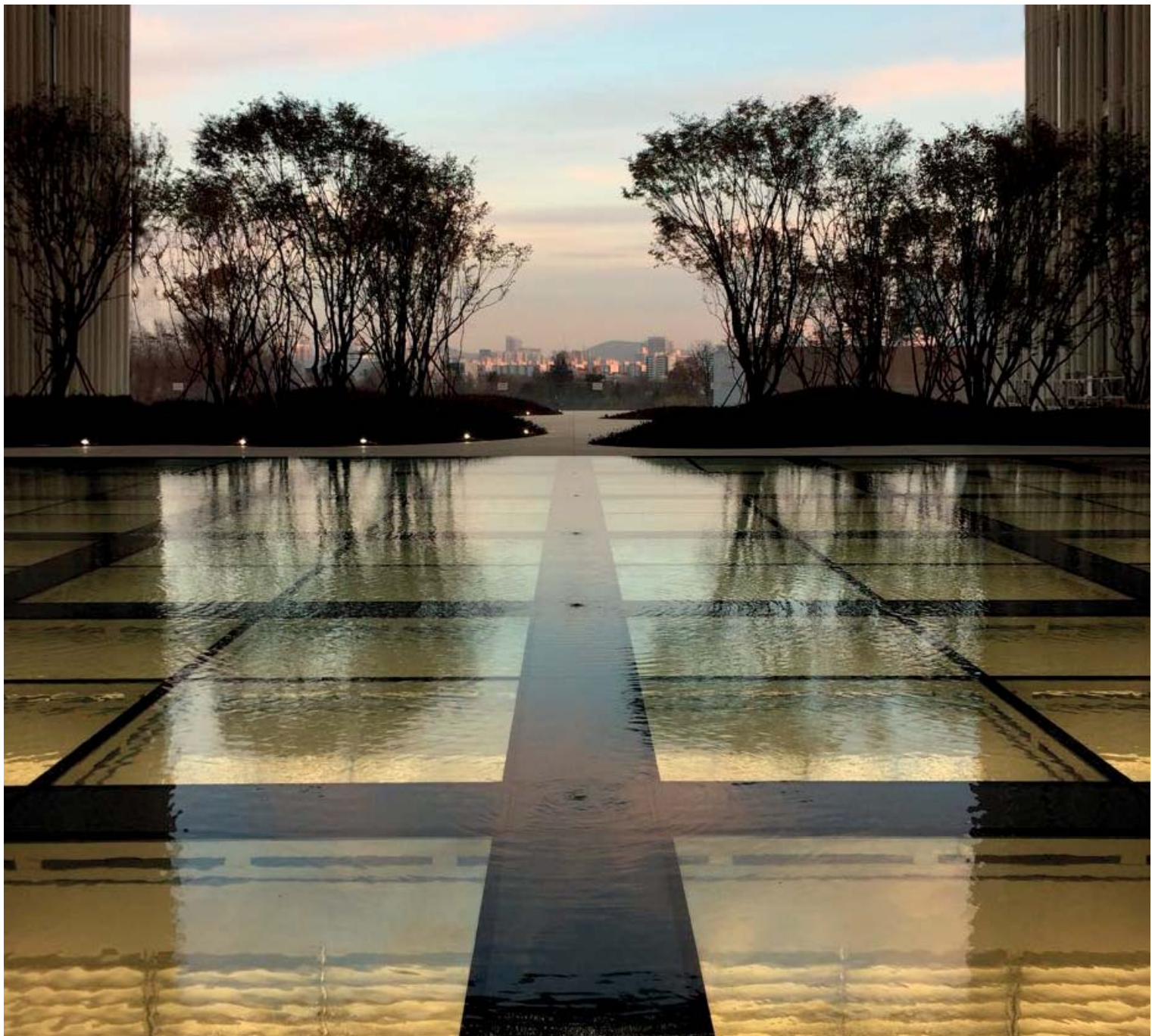


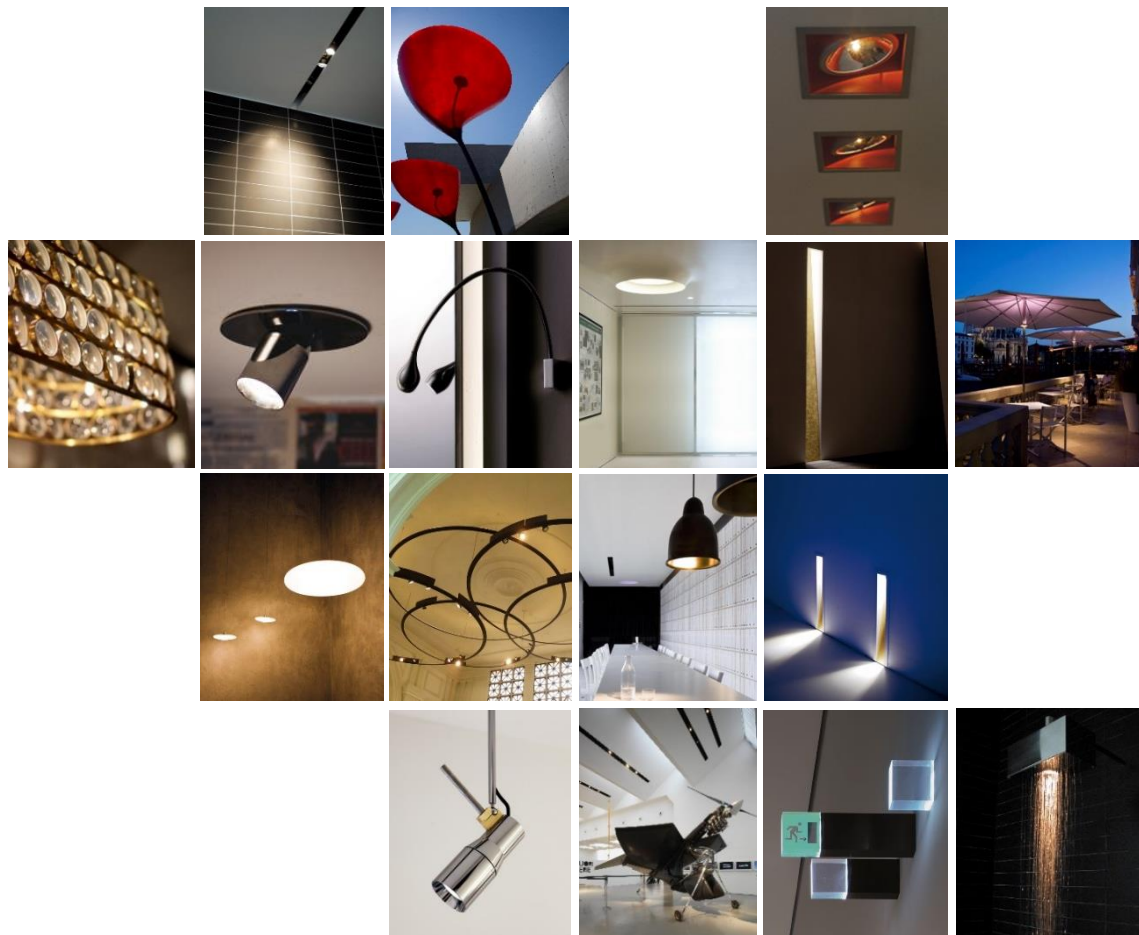












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