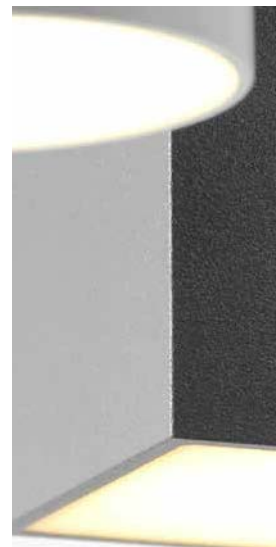


TUBO přisazené stropní svítidlo LED



Základní vlastnosti

Atraktivní a čistý design celohliníkové konstrukce

Čipy LED Citizen typu COB

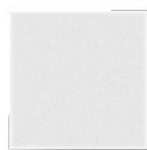
Možnost stmívání

1-10V iDim

3 základní barvy povrchové úpravy

Základní specifikace

životnost LED	48000 h (L90B10) / 179000 h (L70B50)	materiál	hliník a PMMA
napájecí napětí / EEC	AC 230 V A++ / A+ / A	stupeň krytí / třída ochrany	IP 40 I
úhel osvětlení	90°	certifikace	CE
index podání barev	Ra ≥ 80	pracovní teplota	-10 °C ~ +50 °C
povrchová úprava	black / grey / white	relativní vlhkost	10 % ~ 80 %



Díličí specifikace

příkon	20 W	13 W	20 W	13 W	13 W	13 W
rozměry	150 × 150 × 120 mm		Φ150 × 120 mm		Φ80 × 120 mm	75 × 75 × 120 mm
teplota chromatičnosti	3000 / 4000 K		3000 / 4000 K		3000 / 4000 K	3000 / 4000 K
LED čipy	1 × COB Citizen		1 × COB Citizen		1 × COB Citizen	1 × COB Citizen
světelný tok	2275 / 2345 lm	1630 / 1680 lm	2275 / 2345 lm	1630 / 1680 lm	1475 / 1525 lm	1475 / 1525 lm
volitelná integrovaná jednotka AKKU	×	×	×	×	×	×
hmotnost	1,5 kg		1,4 kg		0,6 kg	0,7 kg

Stmívatelné napájecí zdroje

analogové řízení (1-10 V _{DC})	✓	✓	×	×
digitální řízení (DALI) *	✓	✓	×	×

* S podporou funkce Switch-Control

Technický nákres

TUBO $\Phi 150 \times 120$ mm	TUBO $\Phi 80 \times 120$ mm

TUBO 75 x 75 x 120 mm

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Struktura kódu produktu

model	rozměr	napájecí zdroj	příkonová verze	teplota chromatičnosti	povrchová úprava
TUB	1512	HEL	B	4K	W
TUB TUBO	1512 Ø150 × 120 mm 812 Ø80 × 120 mm 151512 150 × 150 × 120 mm 7712 75 × 75 × 120 mm	standardní PSU HEL Helvar PSU DAL DALI Helvar 10V 1-10V Helvar	A 20 W B 13 W 13 W	3K 3000 K 4K 4000 K	B black G grey W white

Kód produktu	EAN	Název produktu	
TUBO Ø150 × 120 mm 20 W	TUB1512HELA3KB	8595210344386	TUBO BLACK Ø150x120mm 20W/3000K + Helvar
	TUB1512HELA4KB	8595210344393	TUBO BLACK Ø150x120mm 20W/4000K + Helvar
	TUB1512HELA3KG	8595210344409	TUBO GREY Ø150x120mm 20W/3000K + Helvar
	TUB1512HELA4KG	8595210344416	TUBO GREY Ø150x120mm 20W/4000K + Helvar
	TUB1512HELA3KW	8595210344423	TUBO WHITE Ø150x120mm 20W/3000K + Helvar
	TUB1512HELA4KW	8595210344430	TUBO WHITE Ø150x120mm 20W/4000K + Helvar
	TUB1512DALA3KB	8595210344447	TUBO BLACK Ø150x120mm 20W/3000K + DALI
	TUB1512DALA4KB	8595210344454	TUBO BLACK Ø150x120mm 20W/4000K + DALI
	TUB1512DALA3KG	8595210344461	TUBO GREY Ø150x120mm 20W/3000K + DALI
	TUB1512DALA4KG	8595210344478	TUBO GREY Ø150x120mm 20W/4000K + DALI
	TUB1512DALA3KW	8595210344485	TUBO WHITE Ø150x120mm 20W/3000K + DALI
	TUB1512DALA4KW	8595210344492	TUBO WHITE Ø150x120mm 20W/4000K + DALI
	TUB151210VA3KB	8595210344508	TUBO BLACK Ø150x120mm 20W/3000K + 1-10V
	TUB151210VA4KB	8595210344515	TUBO BLACK Ø150x120mm 20W/4000K + 1-10V
	TUB151210VA3KG	8595210344522	TUBO GREY Ø150x120mm 20W/3000K + 1-10V
	TUB151210VA4KG	8595210344539	TUBO GREY Ø150x120mm 20W/4000K + 1-10V
	TUB151210VA3KW	8595210344546	TUBO WHITE Ø150x120mm 20W/3000K + 1-10V
	TUB151210VA4KW	8595210344553	TUBO WHITE Ø150x120mm 20W/4000K + 1-10V
TUBO Ø150 × 120 mm 13 W	TUB1512HELB3KB	8595210344560	TUBO BLACK Ø150x120mm 13W/3000K + Helvar
	TUB1512HELB4KB	8595210344577	TUBO BLACK Ø150x120mm 13W/4000K + Helvar
	TUB1512HELB3KG	8595210344584	TUBO GREY Ø150x120mm 13W/3000K + Helvar
	TUB1512HELB4KG	8595210344591	TUBO GREY Ø150x120mm 13W/4000K + Helvar
	TUB1512HELB3KW	8595210344607	TUBO WHITE Ø150x120mm 13W/3000K + Helvar
	TUB1512HELB4KW	8595210344614	TUBO WHITE Ø150x120mm 13W/4000K + Helvar
	TUB1512DALB3KB	8595210344621	TUBO BLACK Ø150x120mm 13W/3000K + DALI
	TUB1512DALB4KB	8595210344638	TUBO BLACK Ø150x120mm 13W/4000K + DALI
	TUB1512DALB3KG	8595210344645	TUBO GREY Ø150x120mm 13W/3000K + DALI
	TUB1512DALB4KG	8595210344652	TUBO GREY Ø150x120mm 13W/4000K + DALI
	TUB1512DALB3KW	8595210344669	TUBO WHITE Ø150x120mm 13W/3000K + DALI
	TUB1512DALB4KW	8595210344676	TUBO WHITE Ø150x120mm 13W/4000K + DALI
	TUB151210VB3KB	8595210344683	TUBO BLACK Ø150x120mm 13W/3000K + 1-10V
	TUB151210VB4KB	8595210344690	TUBO BLACK Ø150x120mm 13W/4000K + 1-10V
	TUB151210VB3KG	8595210344706	TUBO GREY Ø150x120mm 13W/3000K + 1-10V
	TUB151210VB4KG	8595210344713	TUBO GREY Ø150x120mm 13W/4000K + 1-10V
	TUB151210VB3KW	8595210344720	TUBO WHITE Ø150x120mm 13W/3000K + 1-10V
	TUB151210VB4KW	8595210344737	TUBO WHITE Ø150x120mm 13W/4000K + 1-10V
TUBO Ø80 × 120 mm 13 W	TUB8123KB	8595210344744	TUBO BLACK Ø80x120mm 13W/3000K + PSU
	TUB8124KB	8595210344751	TUBO BLACK Ø80x120mm 13W/4000K + PSU
	TUB8123KG	8595210344768	TUBO GREY Ø80x120mm 13W/3000K + PSU
	TUB8124KG	8595210344775	TUBO GREY Ø80x120mm 13W/4000K + PSU
	TUB8123KW	8595210344782	TUBO WHITE Ø80x120mm 13W/3000K + PSU
	TUB8124KW	8595210344799	TUBO WHITE Ø80x120mm 13W/4000K + PSU
TUBO 150 × 150 × 120 mm 20 W	TUB151512HELA3KB	8595210349367	TUBO BLACK 150x150x120mm 20W/3000K + Helvar
	TUB151512HELA4KB	8595210349374	TUBO BLACK 150x150x120mm 20W/4000K + Helvar
	TUB151512HELA3KG	8595210349381	TUBO GREY 150x150x120mm 20W/3000K + Helvar
	TUB151512HELA4KG	8595210349398	TUBO GREY 150x150x120mm 20W/4000K + Helvar
	TUB151512HELA3KW	8595210349404	TUBO WHITE 150x150x120mm 20W/3000K + Helvar
	TUB151512HELA4KW	8595210349411	TUBO WHITE 150x150x120mm 20W/4000K + Helvar

	Kód produktu	EAN	Název produktu
	TUB151512DALA3KB	8595210349428	TUBO BLACK 150x150x120mm 20W/3000K + DALI
	TUB151512DALA4KB	8595210349435	TUBO BLACK 150x150x120mm 20W/4000K + DALI
	TUB151512DALA3KG	8595210349442	TUBO GREY 150x150x120mm 20W/3000K + DALI
	TUB151512DALA4KG	8595210349459	TUBO GREY 150x150x120mm 20W/4000K + DALI
	TUB151512DALA3KW	8595210349466	TUBO WHITE 150x150x120mm 20W/3000K + DALI
	TUB151512DALA4KW	8595210349473	TUBO WHITE 150x150x120mm 20W/4000K + DALI
	TUB15151210VA3KB	8595210349480	TUBO BLACK 150x150x120mm 20W/3000K + 1-10V
	TUB15151210VA4KB	8595210349497	TUBO BLACK 150x150x120mm 20W/4000K + 1-10V
	TUB15151210VA3KG	8595210349503	TUBO GREY 150x150x120mm 20W/3000K + 1-10V
	TUB15151210VA4KG	8595210349510	TUBO GREY 150x150x120mm 20W/4000K + 1-10V
	TUB15151210VA3KW	8595210349527	TUBO WHITE 150x150x120mm 20W/3000K + 1-10V
	TUB15151210VA4KW	8595210349534	TUBO WHITE 150x150x120mm 20W/4000K + 1-10V
TUBO 150 x 150 x 120 mm 13 W	TUB151512HEL3KB	8595210349541	TUBO BLACK 150x150x120mm 13W/3000K + Helvar
	TUB151512HEL4KB	8595210349558	TUBO BLACK 150x150x120mm 13W/4000K + Helvar
	TUB151512HEL3KG	8595210349565	TUBO GREY 150x150x120mm 13W/3000K + Helvar
	TUB151512HEL4KG	8595210349572	TUBO GREY 150x150x120mm 13W/4000K + Helvar
	TUB151512HEL3KW	8595210349589	TUBO WHITE 150x150x120mm 13W/3000K + Helvar
	TUB151512HEL4KW	8595210349596	TUBO WHITE 150x150x120mm 13W/4000K + Helvar
	TUB151512DALB3KB	8595210349602	TUBO BLACK 150x150x120mm 13W/3000K + DALI
	TUB151512DALB4KB	8595210349619	TUBO BLACK 150x150x120mm 13W/4000K + DALI
	TUB151512DALB3KG	8595210349626	TUBO GREY 150x150x120mm 13W/3000K + DALI
	TUB151512DALB4KG	8595210349633	TUBO GREY 150x150x120mm 13W/4000K + DALI
	TUB151512DALB3KW	8595210349640	TUBO WHITE 150x150x120mm 13W/3000K + DALI
	TUB151512DALB4KW	8595210349657	TUBO WHITE 150x150x120mm 13W/4000K + DALI
	TUB15151210VB3KB	8595210349664	TUBO BLACK 150x150x120mm 13W/3000K + 1-10V
	TUB15151210VB4KB	8595210349671	TUBO BLACK 150x150x120mm 13W/4000K + 1-10V
	TUB15151210VB3KG	8595210349688	TUBO GREY 150x150x120mm 13W/3000K + 1-10V
	TUB15151210VB4KG	8595210349695	TUBO GREY 150x150x120mm 13W/4000K + 1-10V
	TUB15151210VB3KW	8595210349701	TUBO WHITE 150x150x120mm 13W/3000K + 1-10V
	TUB15151210VB4KW	8595210349718	TUBO WHITE 150x150x120mm 13W/4000K + 1-10V
TUBO 75 x 75 x 80 mm 13 W	TUB77123KB	8595210344805	TUBO BLACK 75x75x120mm 13W/3000K + PSU
	TUB77124KB	8595210344812	TUBO BLACK 75x75x120mm 13W/4000K + PSU
	TUB77123KG	8595210344829	TUBO GREY 75x75x120mm 13W/3000K + PSU
	TUB77124KG	8595210344836	TUBO GREY 75x75x120mm 13W/4000K + PSU
	TUB77123KW	8595210344843	TUBO WHITE 75x75x120mm 13W/3000K + PSU
	TUB77124KW	8595210344850	TUBO WHITE 75x75x120mm 13W/4000K + PSU
Náhradní PSU	LC1x30ECC	8595210347141	Spínaný PSU Helvar pro verze TUB1512xxx a TUB151512xxx
	LC1x30EDA	8595210347264	Strmivatelný PSU Helvar DALI pro verze TUB1512xxx a TUB151512xxx
	LC1x30EAN	8595210347271	Strmivatelný PSU Helvar 1-10V pro verze TUB1512xxx a TUB151512xxx
Příslušenství DALI	DIGIDIMMIL444	8595210356501	Jednotka Helvar Mini Input Unit pod tlačítkový spínač
	IDIMSOLOIM403	8595210356518	Modul rozhraní Helvar iDim Solo